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Solar-Geophysical Data comprehensive reports

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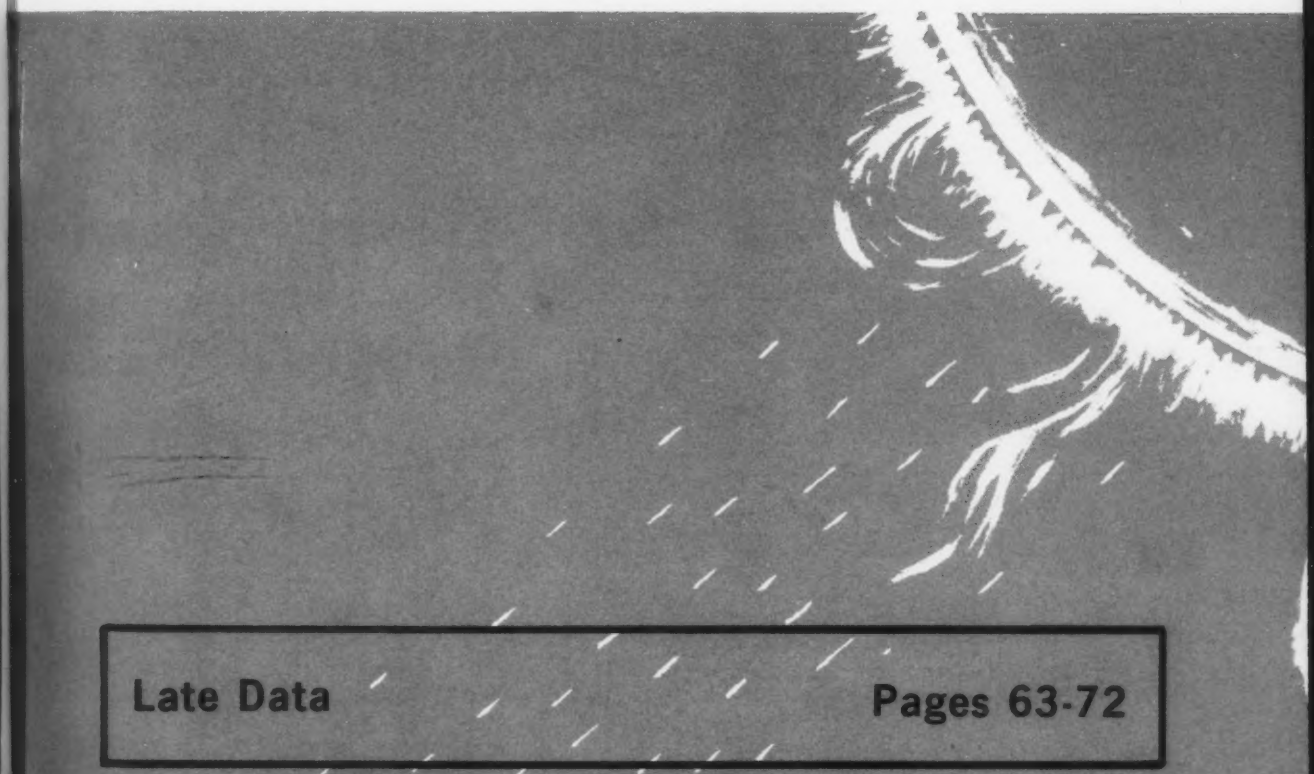

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SOLAR-GEOPHYSICAL DATA

No. 450

Issued in two parts

Helen E. Coffey, Editor

Joe H. Allen, Chief
Solar-Terrestrial Physics Division

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SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
01	2695	PENT	20 GRF	0035.0	0125	85.00	3.6			
	200	GORK	44 NS	0257.0E		400.00		10.0		
	100	GORK	43 NS	0330.0		370.00		10.0		
	260	ONDR	44 NS	0626.0E	0808.7	456.00	54.0			
	208	VORO	44 NS	2200.0E		240.00		22.0		
	9400	TYKW	5 S	0032.0	0033.0	2.0	3.0	1.0		
	3750	TYKW	21 GRF	0032.0	0115	85.0	5.0	2.0		
	3750	TYKW	5 S	0032.5	0033.0	1.5	1.5	.5		
	3750	TYKW	5 S	0043.0	0044.5	6.0	2.0	1.0		
	9400	TYKW	21 GRF	0045.0	0120	65.0	4.0	2.0		
	8800	PALE	8 S/F	0050.3	0051.3	2.0	27			
	9400	TYKW	5 S	0050.5	0051.3	2.0	6.0	2.0		
	1000	TYKW	5 S	0051.0	0051.4	1.5	3.5	.7		
	2000	TYKW	20 GRF	0100.0	0122	60.0	3.0	1.0		
	606	LEAR	8 S	0142.8	0143.0	.3	170			
	1000	TYKW	8 S	0142.9	0143.0	.3	195.0	12.0		
	3750	TYKW	20 GRF	0332.0	0350 U	50.0	2.0U	1.0U		
	9400	TYKW	20 GRF	0332.0	0350 U	50.0	4.0U	2.0U		INTERFERENCE
	15400	PALE	8 S	0419.8	0420.1	.7	33			
	3750	TYKW	20 GRF	0440.0	0458	70.0	5.0	2.0		
	9400	TYKW	21 GRF	0445.0	0500	60.0	4.0	2.0		
	2000	TYKW	20 GRF	0445.0	0500	60.0	2.0	1.0		
	2950	GORK	20 GRF	0446.5	0457.7	34.0	4.0	2.0		
	9100	GORK	20 GRF	0447.0	0518.3	58.7	10.0	5.0		
	33	UPIC	42 SER	0509.2	0808.5	273.8				
	29	UPIC	42 SER	0510.4	0809	273.2				
	100	GORK	45 C	0516.8	0517.1	2.5	50.00			
	100	GORK		0516.8	0518.4		50.00			
	9400	TYKW	45 C	0517.0	0518.4	2.0	9.0	2.0		
	9100	GORK	21 GRF	0547.3	0736.6	220.0	17.0			
	2000	TYKW	21 GRF	0550.0	0625	180.0	5.0	2.5		
	1000	TYKW	20 GRF	0550.0	0620	120.0	2.0	1.0		
	3750	TYKW	21 GRF	0550.0	0640	180.0	5.0	2.5		
	9400	TYKW	21 GRF	0555.0	0640	160.0	8.0	4.0		
	100	GORK		0556.0	0603.8		60.00			
	100	GORK	46 C	0556.0	0600.5	18.0	60.00			
	100	HIRA	41 F	0557.0	0612.1	20.0	370.0			WL
	200	HIRA	46 C	0559.6	0606	53.0	29.0	9.0		WR
	9395	PEKG	2 S/F	0607.0	0611.5	7.0	19.0	7.0		
	2950	GORK	20 GRF	0607.9	0641.2	106.0	6.0	3.0		
	2840	PEKG	1 S	0610.0	0611.5	4.0	7.0			
	2000	TYKW	5 S	0617.0	0618.5U	3.0U	2.0U	1.0U		
	2950	GORK	4 S/F	0706.9	0708.6	5.7	27.0			
	113	POTS	4 S/F	0735.8	0736.3	.7	700.0	60.0		
	2840	PEKG		0806.0	0808		29.0			
	2840	PEKG	7 C	0806.0	0808.6	12.0	32.0	14.0		
	9395	PEKG	4 S/F	0806.0	0808.7	9.0	47.5	16.0		
	1470	POTS	4 S/F	0806.4	0808.9	8.6	6.9			
	536	ONDR	2 S/F	0806.4	0808.7	4.0	24.0	7.0		
	9500	POTS	4 S/F	0806.6	0808.6	8.7	36.0			
	3000	POTS	4 S/F	0806.8	0808.8	8.2	31.0			
	808	ONDR	2 S/F	0806.8	0808	5.0	18.0	7.0		
	9400	TYKW	45 C	0807.0	0808.6	8.0	35.0	8.0		
	1000	TYKW	45 C	0807.0	0807.7	4.0	18.0	4.0		
	3750	TYKW	45 C	0807.0	0808.5	8.0	36.0	8.0		
	9100	GORK	4 S/F	0807.0	0808.6	4.5	42.0			
	5200	BERN	4	0807.0	0808.5	8.0	70.0			ONLY PAPER REC
	8400	BERN	4	0807.0	0808.5	7.0	50.0			
	1415	MANI	2 S	0807.2	0809.0	4.8	7.7	2.6		
	2695	ATHN	4 S/F	0807.3	0808.8	3.00	29			
	3200	BERN	4	0807.5	0808.5	7.0	37.0			ONLY PAPER REC
	11800	BERN	4	0807.5	0808.5	6.0	26.0			
	2000	TYKW	45 C	0807.5	0808.7	7.0	13.0	3.0		
	3000	IZMI	5 S	0807.5	0808.5	2.0	40.0	25.0		
	4995	ATHN	4 S/F	0807.6	0808.5	2.70	47			
	8800	ATHN	4 S/F	0807.6	0808.5	2.7	38			
	4995	MANI	4 S/F	0807.6	0808.8	3.9	83.3	27.8		
	2695	MANI	4 S/F	0807.6	0809.0	3.1	29.4	9.8		
	8800	MANI	3 S	0807.7	0808.3	3.0	60.7	20.2		
	950	GORK	3 S	0808.0	0808.5	2.5	24.0	12.0		
	430	KRAK	41 F	0808.0	0808.5	2.5	87.0			
	650	GORK	1 S	0808.2	0808.6	3.1	4.0	2.0		
	204	IZMI	5 S	0808.5	0808.5	1.0	115.0	45.0		
	234	POTS	4 S/F	0808.6	0808.8	6.0	125.0	8.0		III
	113	POTS	4 S/F	0907.1	0907.2	4.0	150.0	30.0		
	113	POTS	4 S/F	0943.2	0943.2	6.0	280.0	30.0		III
	113	POTS	4 S/F	1230.0	1230.4	.8	200.0	40.0		
	2800	OTTA	20 GRF	1320.0	1332	45.0	6.2	3.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
01	7000	SAOP	27	RF	1325.6		34.8	6.0	3.0		O
	3000	IZMI	27	RF	1325.6		34.8	6.0	3.0		O
	1470	POTS	1	S	1353.5	1354.0	.9	3.1			
	3000	POTS	1	S	1353.6	1353.9	1.2	4.1			
	33	UPIC	2	S/F	1434.1	1434.3	1.2				
	29	UPIC	2	S/F	1434.1	1434.8	1.3				
	2800	OTTA	21	GRF	1435.0	1502	75.0	3.8	1.9		
	8400	BERN	3		1437.0	1439.1	14.0	56.0			
	2695	SGMR	4	S/F	1437.1	1439.0	14.2	07			
	15400	SGMR	4	S/F	1437.5	1439.1	6.30	25			
	11800	BERN	3		1437.5	1439.1	13.0	40.0			
	3200	BERN	1		1437.6	1439.0	4.0	14.0			ONLY PAPER REC
	4995	SGMR	4	S/F	1437.6	1439.0	6.20	50			
	8800	SGMR	4	S/F	1437.6	1439.0	6.70	55			
	19600	BERN	3		1437.6	1439.1	4.0	23.0			
	5200	BERN	1		1437.6	1439.1	8.0	48.0			ONLY PAPER REC
	9400	HUAN	3	S	1437.7	1439.1	4.3	43.4	20.7		L
	2800	OTTA	1	S	1437.8	1439	5.0	7.2	3.0		
	8800	ATHN	4	S/F	1437.8	1439.1	4.5	41			
	7000	SAOP	3	S	1438.0	1439.1	2.6	64.0	32.0		6L
	29	UPIC	45	C	1438.1	1438.8	2.9				
	33	UPIC	45	C	1438.2	1439.6	3.0				
	7000	SAOP	29	PRI	1440.2	1440.5	9.4	29.0	14.0		
	9400	HUAN	29	PRI	1442.0	1442.0	10.1	8.3	4.3		
	2800	OTTA	21	GRF	1830.0	1950	330.0	15.6	5.2		
	245	PALE	47	GB	2008.6	2012.1	14.7	71			
	1000	TYKW	8	S	2148.9	2149.0	.3	5.0	1.5		
	3750	TYKW	28	PRE	2210.0	2227	17.0	2.0	1.0		
	3750	TYKW	5	S	2227.0	2229.4	7.0	25.0	7.0		
	2800	OTTA	3	S	2227.0	2229.5	7.0	10.6	3.4		
	9400	TYKW	5	S	2228.0	2229.4	2.0	7.0	4.0		
	2000	TYKW	21	GRF	2228.0	2229.5	45.0	1.5	.5		
	4995	PALE	8	S	2228.6	2229.1	1.0	20			
	2695	PALE	8	S	2228.8	2229.3	.8	13			
	8800	PALE	8	S	2229.1	2229.1	.7	13			
	9400	TYKW	30	PRI	2230.0		55.0	4.0	2.0		
	3750	TYKW	30	PRI	2234.0		40.0	5.0	2.5		
	2000	TYKW	5	S	2257.0	2258.5	7.0	2.5	1.0		
	9400	TYKW	5	S	2257.0	2258.5	8.0	38.0	10.0		
	3750	TYKW	5	S	2257.0	2258.6	8.0	23.0	6.0		
	1000	TYKW	8	S	2257.1	2257.2	.2	7.0	2.0		
	2695	PENT	1	S	2257.5	2258.8	4.0	6.2	3.0		
	3750	TYKW	5	S	2330.0	2334	25.0	3.0	1.5		
02	200	HIRA	43	NS	0228.0	0255	430.00	20.0	5.0		MR
	200	GORK	44	NS	0300.0E		420.00		5.0		
	100	GORK	44	NS	0306.0E		334.00		5.0		
	245	LEAR	43	NS	0450.8	0822.0	295.20	32			
	29	UPIC	43	NS	0504.8	0924	728.50				
	33	UPIC	43	NS	0507.9	0923.7	725.00				
	260	ONDR	44	NS	0612.0E	0722.5	468.00	44.0			
	200	HIRA	44	NS	1943.0E	2112	79.00	6.0	3.0		MR
	208	VORO	44	NS	2200.0E		240.00		9.0		
	245	LEAR	43	NS	2313.0	0525.6	633.00	170			
	3750	TYKW	5	S	0039.6	0040.0	1.0	10.0	3.0		
	2000	TYKW	5	S	0039.6	0040.1	1.0	2.0	.7		
	2695	PENT	8	S	0040.0	0040.2	.8	4.8	2.4		
	3750	TYKW	20	GRF	0100.0	0110	60.0	2.0	1.0		
	3750	TYKW	5	S	0339.0	0339.8	2.0	13.0	4.0		
	9100	GORK	21	GRF	0339.2	0529.1	156.6	10.0			
	4995	LEAR	8	S	0339.3	0339.6	.7	31			
	2950	GORK	1	S	0339.4	0339.8	1.0	8.0	4.0		
	9400	TYKW	5	S	0339.5	0339.8	1.5	15.0	4.0		
	9100	GORK	1	S	0339.5	0339.9	1.0	15.0	7.5		
	8800	LEAR	8	S	0339.5	0339.6	.6	27			
	245	LEAR	8	S	0339.6	0339.8	.4	210			
	3750	TYKW	20	GRF	0410.0	0453	120.0	4.0	1.5		
	410	LEAR	8	S	0535.0	0535.1	.6	13			
	9100	GORK	21	GRF	0618.0		207.0E				
	2000	TYKW	21	GRF	0620.0	0650	80.0	2.0	1.0		
	3750	TYKW	28	PRE	0623.0	0634	11.0	2.0	1.0		
	9400	TYKW	28	PRE	0623.5	0634	10.5	5.0	3.0		
	1000	TYKW	28	PRE	0630.5	0630.6	4.5	7.0	.7		
	650	GORK	2	S/F	0632.5	0633.7	7.9	3.0			
	808	ONDR	45	C	0633.3	0636.5	5.5	105.0	10.0		
	9400	TYKW	45	C	0634.0	0637.1	5.0	21.0	12.0		
	3750	TYKW	45	C	0634.0	0637.1	5.0	11.0	6.0		
	5200	BERN	1		0634.0	0637.0	4.0	16.0			ONLY PAPER REC
	3200	BERN	1		0634.0	0637.0	6.0	9.0			ONLY PAPER REC
	9100	GORK	1	S	0634.7	0637.2	4.1	20.0	10.0		
	1000	TYKW	45	C	0635.0	0636.7	4.0	223.0	10.0		
	2000	TYKW	45	C	0635.0	0637.9	7.0	5.0	1.5		
	950	GORK	4	S/F	0635.0	0636.6	3.8	209.0			
	15400	LEAR	4	S/F	0635.0	0637.0	4.1	13			
	4995	LEAR	4	S/F	0635.0	0637.1	4.1	18			

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02	8800	LEAR	4	S/F	0635.1	0637.1	4.0	24			
	2695	LEAR	4	S/F	0635.1	0637.3	4.4	11			
	2950	GORK	1	S	0635.1	0637.1	3.9	8.0	4.0		
	100	GORK	2	S/F	0636.0	0636.7	1.7	100.0			
	200	GORK	4	S/F	0636.0	0636.4	1.3	140.0			
	3750	TYKW	29	PRI	0639.0		80.0	3.0	1.5		
	9400	TYKW	29	PRI	0639.0		60.0	4.0	2.0		
	1470	POTS	4	S/F	0639.6	0640.3	1.9	27.0			
	1415	LEAR	8	S	0640.0	0640.1	.8	55			
	113	POTS	4	S/F	0744.7	0744.8	9.0	300.0	60.0		
	3000	POTS	27	RF	0902.5	0907.2	28.0	3.4			
	9500	POTS	27	RF	0902.6	0907.2	28.0	7.3			
	536	ONDR	8	S	1002.5	1002.5	.3	65.0			
	430	KRAK	8	S	1027.3	1027.3	.1	36.0			
	2800	OTTA	27	RF	1115.0		115.0	2.8	2.1		
	2800	OTTA	24	R	1115.0	1145	30.0	2.8	1.4		
	2800	OTTA	24P	R	1145.0		60.0	2.8			
	2800	OTTA	26	FAL	1245.0	1310	25.0	-2.8	-1.4		
	1470	POTS	42	SER	1422.9	1423.2	4.1	6.1			
	2800	OTTA	1	S	1501.0	1503	3.5	2.0	1.0		
	9400	HUAN	20	GRF	1513.1	1530.5	44.0	8.6	5.1		0
	2800	OTTA	20	GRF	1515.0	1527	45.0	5.0	2.4		
	2800	OTTA	20	GRF	1930.0	2012	75.0	4.2	1.8		
	606	PALE	4	S/F	2011.8	2012.8	5.3	41			
	410	PALE	8	S	2034.1	2034.3	.2	28			
	3750	TYKW	45	C	2159.0	2203.6	8.0	24.0	10.0		
	2000	TYKW	5	S	2159.0	2203.0	9.0	25.0	9.0		
	9400	TYKW	5	S	2200.0	2201.5	5.0	18.0	8.0		
	1000	TYKW	5	S	2200.0	2203.7	8.0	4.0	1.5		
	2800	OTTA	4	S/F	2200.0	2203	7.0	26.6	10.0		
	4995	PALE	4	S/F	2200.1	2201.3	3.9	37			
	8800	PALE	4	S/F	2200.8	2201.3	2.8	27			
	2695	PALE	4	S/F	2200.8	2203.0	3.5	37			
	606	PALE	8	S	2202.5	2202.8	.6	49			
	1415	PALE	8	S	2202.6	2202.8	.7	13			
	9400	TYKW	29	PRI	2205.0		55.0	4.0	2.0		
	3750	TYKW	29	PRI	2207.0		60.0	3.0	1.5		
	2000	TYKW	29	PRI	2208.0		65.0	3.0	1.5		
	1000	TYKW	45	C	2220.5	2221.0	1.5	3.0	1.0		
	1000	TYKW	42	SER	2256.0	2303.2	14.0	9.0	1.0		
	245	PALE	47	GR	2312.1	2313.3	6.7	53			
	3750	TYKW	20	GRF	2320.0	2352	80.0	2.0	1.0		
	9400	TYKW	20	GRF	2320.0	2352	70.0	4.0	1.5		
	2000	TYKW	20	GRF	2340.0	0010	60.0	1.5	.5		
03	260	ONDR	44	NS	0542.0E	1208.6	508.0D	60.0			
	29	UPIC	43	NS	0618.0		576.6D				
	33	UPIC	43	NS	0618.2		576.6D				
	100	GORK	43	NS	1048.0		72.0E		5.0		
	245	LEAR	43	NS	2313.0	0737.0	634.0D	58			
	9400	TYKW	21	GRF	0055.0	0140	80.0	4.0	2.0		
	3750	TYKW	21	GRF	0055.0	0259	270.0	8.0	3.0		
	3750	TYKW	21	GRF	0103.0	0140	70.0	4.0	2.0		
	2000	TYKW	21	GRF	0110.0	0301	230.0	4.0	2.0		
	1000	TYKW	5	S	0137.0	0137.6	1.0	225.0	20.0		
	3750	TYKW	5	S	0137.0	0137.4	1.0	5.0	2.0		
	8800	LEAR	8	S	0137.0	0137.3	.8	21			
	2695	PENT	1	S	0137.0	0137.5	1.0	6.2	2.8		
	606	LEAR	8	S	0137.0	0137.3	.8	110			
	4995	LEAR	8	S	0137.1	0137.3	.7	10			
	2695	LEAR	8	S	0137.1	0137.5	.7	15			
	1415	LEAR	8	S	0137.1	0137.6	1.0	20			
	2000	TYKW	5	S	0137.2	0137.5	1.0	10.0	3.0		
	9400	TYKW	5	S	0137.2	0137.4	.5	12.0	4.0		
	1415	PALE	8	S	0137.3	0137.6	.5	29			
	2000	TYKW	5	S	0140.5	0141.3	2.5	3.0	1.0		
	1415	LEAR	8	S	0141.3	0141.6	.8	18			
	3750	TYKW	5	S	0208.0	0208.4	1.0	4.0	1.5		
	8800	PALE	8	S	0239.8	0240.1	.5	28			
	9400	TYKW	21	GRF	0250.0	0400	150.0	3.0	1.5		
	9400	TYKW	28	PRE	0417.0	0418	4.0	3.0	1.5		
	3750	TYKW	28	PRE	0417.5	0418.7	3.5	3.0	1.0		
	2000	TYKW	21	GRF	0420.0	0430	30.0	1.5	.7		
	9100	GORK	21	GRF	0420.8	0429.6	32.0	20.0			
	3750	TYKW	5	S	0421.0	0424.4	9.0	18.0	8.0		
	9400	TYKW	45	C	0421.0	0424.3	11.0	74.0	23.0		
	9100	GORK			0422.8	0428.0		27.0			
	9100	GORK	45	C	0422.8	0424.2	6.6	66.0			
	2000	TYKW	5	S	0423.0	0424.4	3.0	2.5	.7		
	8800	MANI	3	S	0423.0	0424.0	3.7	37.0	12.3		
	4995	MANI	3	S	0423.0	0424.2	3.7	44.8	14.9		
	4995	PALE	8	S	0424.0	0424.3	.8	28			
	15400	LEAR	8	S	0424.0	0424.1	.8	23			
	8800	PALE	8	S	0424.0	0424.1	.8	58			
	245	PALE	8	S	0424.1	0424.1	.5	210			

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03	245	LEAR	8	S	0424.1	0424.3	.5	160			
	3750	TYKW	29	PBI	0430.0		30.0	5.0	2.5		
	9400	TYKW	29	PBI	0432.0		35.0	11.0	5.0		
	3750	TYKW	5	S	0513.0	0515.5	8.0	2.5	1.0		
	3750	TYKW	5	S	0603.0E	0604.3	15.0D	4.0	1.0		
	1000	TYKW	45	C	0606.0	0606.5	1.0	11.0	1.5		
	1470	POTS	1	S	0706.7	0707.0	.9	2.0			
	430	KRAK	8	S	0834.3	0834.5	.6	120.0			
	3000	POTS	27	RF	0900.5	0929.5	117.0	21.0			
	1470	POTS	27	RF	0902.5	0907.8	23.0	1.2			
	9500	POTS	27	RF	0905.0	0930.6	30.0	5.9			
	810	KRAK	8	S	0937.5	0937.5	.2	60.0			
	1470	POTS	3	S	0942.2	0943.7	8.8	6.2			
	810	KRAK	8	S	0943.5	0943.7	.6	170.0			
	1470	POTS	1	S	1000.5	1001.4	5.0	1.2			
	9500	POTS	1	S	1001.0	1001.6	18.0	4.5			
	3000	POTS	1	S	1001.0	1001.3	9.0	3.5			
	808	ONDR	3	S	1114.6	1120.5	20.0	30.0	15.0		
	113	POTS	4	S/F	1118.3	1120	9.3	800.0	50.0		III
	950	GORK	3	S	1118.3	1120.2	5.5				
	100	GORK	46	C	1118.4	1120.7	3.2	3460.0			
	100	GORK			1118.4	1121.1		1870.0			
	3000	POTS	4	S/F	1118.5	1119.7	16.0	36.0			
	9500	POTS	4	S/F	1118.5	1119.7	3.6	18.0			
	33	UPIC	48	C	1118.5	1119.9	51.1				
	29	UPIC	48	C	1118.5	1120.4	51.1				
	536	ONDR	45	C	1118.6	1120	22.0	72.0	7.0		
	810	KRAK	3	S	1118.7	1120.3	9.2	26.0	9.0		
	430	KRAK	45	C	1118.7	1119.3	14.5	500.0D	8.0		
	650	GORK	4	S/F	1118.8	1119.9	5.1	13.0			
	7000	SAOP	4	S/F	1118.8	1119.8	1.6	33.0	16.0		19R
	3100	CRIM	3	S	1119.0	1119.9	8.0	35.0	11.0		
	9100	GORK	1	S	1119.0	1119.6	3.3	24.0	12.0		
	2800	OTTA	4	S/F	1119.0	1120	7.0	36.0	13.6		
	5200	BERN	1		1119.0	1119.7	4.0	42.0			ONLY PAPER REC
	3200	BERN	1		1119.0	1119.7	5.0	36.0			ONLY PAPER REC
	2950	GORK	3	S	1119.1	1119.6	4.8	33.0	16.0		
	204	IZMI	5	S	1119.2	1119.2	.8	230.0	100.0		
	7000	SAOP	29	PBI	1120.4	1120.6	3.4	23.0	11.0		
	650	GORK	30	PBI	1123.1	1124.0	36.0D	3.0			
	950	GORK	29	PBI	1123.8	1124.0	36.0E				
	3000	POTS	1	S	1211.5	1213.0	3.5	7.1			
	2800	OTTA	1	S	1213.0	1213.2	2.0	2.8	1.4		
	9500	POTS	1	S	1214.5	1214.8	.8	4.5			
	7000	SAOP	1	S	1218.7	1219.3	1.4	5.0	2.5		0
	245	SGMR	8	S	1248.1	1248.3	1.0	240			
	410	SGMR	8	S	1248.1	1248.3	.4D	17			
	260	ONDR	8	S	1248.3	1248.3	.3	222.0D			
	9400	HUAN	20	GRF	1304.8	1330.0	47.7	10.0	4.2		0
	7000	SAOP	20	GRF	1435.8	1440.0	26.5	13.0	6.0		0
	7000	SAOP	3	S	1527.1	1527.4	.8	13.0	6.0		0
	9400	HUAN	21	GRF	1559.7	1652.7	86.4	22.6	9.6		LRL
	8400	BERN	41		1600.0	1648.6	86.0U	150.0			
	11800	BERN	41		1600.0	1648.6	86.0U	164.0			
	7000	SAOP	4	S/F	1600.2	1604.7	5.0	30.0	15.0		0
	5200	BERN	22		1600.5	1649.0	56.0	63.0			ONLY PAPER REC
	4995	SGMR	4	S/F	1601.8	1604.6	7.3D	13			
	8800	SGMR	4	S/F	1602.1	1605.6	11.9	50			
	9400	HUAN	4	S/F	1602.1	1604.5	3.2	37.6	11.0		R
	7000	SAOP	29	PBI	1605.2	1605.2	8.5	17.0	8.0		
	7000	SAOP	41	F	1605.2						Z
	2800	OTTA	21	GRF	1625.0	1637	40.0	3.6			
	7000	SAOP	1	S	1626.5	1628.8	4.8	10.0	5.0		16R
	3200	BERN	22		1627.0	1648.7	30.0	23.0			ONLY PAPER REC
	2800	OTTA	1	S	1628.0	1629	4.0	6.2	3.1		
	7000	SAOP	28	PRE	1633.8	1636.8	9.4	14.0	7.0		
	8800	SGMR	4	S/F	1643.1	1648.6	18.5D	130			
	4995	SGMR	4	S/F	1643.1	1648.6	18.0D	41			
	2695	SGMR	4	S/F	1643.1	1648.6	15.7D	13			
	7000	SAOP	4	S/F	1643.3	1648.7	8.8	112.0	66.0		0
	9400	HUAN	45	C	1643.7	1648.5	8.1	137.0	61.0		L
	2800	OTTA	45	C	1644.0	1648.8	8.0	16.0	8.0		
	19600	BERN	3		1644.5	1648.6	9.0U	55.0U			
	15400	SGMR	4	S/F	1644.5	1648.6	11.8	130			
	7000	SAOP	29	PBI	1652.0	1652.0	11.8	17.0	8.0		
	15400	PALE	47	GB	1726.6	1728.6	13.0	44			
	8800	PALE	47	GB	1727.1	1727.3	.2	16			
	2800	OTTA	21	GRF	2010.0		35.0	6.8	3.4		
	9400	HUAN	21	GRF	2011.3	2031.6	46.0	19.6	9.9		L
	8800	PALE	4	S/F	2019.3	2024.3	14.5	260			
	4995	PALE	4	S/F	2019.8	2024.5	8.2	96			
	2800	OTTA	4	S/F	2021.0	2024.5	6.0	49.0	23.0		
	15400	PALE	4	S/F	2021.0	2023.6	13.3	210			
	9400	HUAN	45	C	2021.2	2024.3	8.0	182.2	79.2		L
	606	PALE	8	S	2022.3	2022.5	.8	400			

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
03	2695	PALE	4	S/F	2022.3	2024.3	3.8	53			
	1415	PALE	47	GB	2022.5	2024.3	2.6	20			
	1000	TYKW	21	GRF	2230.0	2345	300.0	4.0	2.0		
	2695	PENT	21	GRF	2250.0	2343	150.0	9.0	3.0		
	3750	TYKW	28	PRE	2252.0	2337	45.0	13.0	7.0		
	410	PALE	47	GB	2253.6	2253.8	.4	800			
	606	PALE	8	S	2253.6	2253.8	.2	130			
	245	PALE	8	S	2253.6	2253.8	.4	46			
	9400	TYKW	28	PRE	2257.0	2300	38.0	7.0	5.0		
	2000	TYKW	28	PRE	2257.0	2337	40.0	5.0	3.0		
	1000	TYKW	45	C	2258.6	2259.0	1.0	9.0	2.0		
	2695	PENT	1	S	2259.5	2259.6	1.0	3.6	1.8		
	3750	TYKW	5	S	2308.0	2308.9	2.0	12.0	3.0		
	9400	TYKW	5	S	2308.0	2308.8	2.0	12.0	3.0		
	1000	TYKW	45	C	2308.0	2309.4	2.0	4.0	1.0		
	2000	TYKW	5	S	2308.0	2308.9	2.0	2.0	.7		
	4995	PALE	8	S	2308.6	2308.8	.7	19			
	8800	PALE	8	S	2308.6	2308.8	.7	27			
	2695	PALE	8	S	2308.6	2308.8	.5	17			
	2695	PENT	1	S	2308.7	2309	1.3	5.4	2.7		
	1000	TYKW	45	C	2310.0	2310.4	2.5	52.0	2.0		
	3750	TYKW	5	S	2310.0	2310.3	1.0	9.0	2.0		
	2695	PENT	8	S	2310.2	2310.4	.8	5.0	2.3		
	2000	TYKW	8	S	2310.3	2310.4	.3	6.0	1.5		
	2000	TYKW	5	S	2311.5	2311.9	1.0	7.0	1.0		
	2695	PENT	8	S	2334.2	2334.6	.7	5.4	2.7		
	9400	TYKW	5	S	2335.0	2340.8	45.0	38.0	15.0		
	8800	LEAR	4	S/F	2336.5	2340.8	6.3	22			
	2695	LEAR	4	S/F	2336.6	2339.5	6.2	17			
	2000	TYKW	5	S	2337.0	2339	11.0	12.0	9.0		
	3750	TYKW	45	C	2337.0	2339.2	13.0	31.0	18.0		
	4995	LEAR	4	S/F	2337.8	2338.8	5.0	20			
	4995	PALE	4	S/F	2338.0	2340.6	3.0	17			
	2695	PENT	1	S	2338.0	2340	4.0	7.2	4.0		
	8800	PALE	4	S/F	2338.1	2340.8	3.4	39			
	2695	PALE	8	S	2338.6	2339.3	1.2	16			
	15400	LEAR	4	S/F	2339.8	2340.8	3.3	13			
	15400	PALE	8	S	2340.6	2340.6	.4	20			
	2000	TYKW	29	PRI	2348.0		220.0	7.0	3.0		
	3750	TYKW	30	PRI	2350.0		210.0	12.0	5.0		
04	200	GORK	43	NS	0405.0		436.0D		5.0		
	29	UPIC	43	NS	0433.4		693.4D				
	33	UPIC	43	NS	0433.6	1529.9	690.4D				
	260	ONDR	44	MS	0545.0E		505.0D	30.0	2.0		
	208	VORO	44	NS	2200.0E		180.0D		8.0		
	9400	TYKW	30	PRI	0020.0		180.0	9.0	4.0		
	3750	TYKW	20	GRF	0125.0	0134	55.0	4.5	2.5		
	9400	TYKW	20	GRF	0125.0	0145	60.0	4.0	2.0		
	410	LEAR	8	S	0139.8	0140.0	.5	50			
	606	LEAR	8	S	0202.1	0202.3	.4	10			
	410	LEAR	8	S	0202.3	0202.3	.5	58			
	245	LEAR	47	GB	0204.6	0210.8	8.0	150			
	410	LEAR	47	GB	0206.8	0207.5	8.0	600			
	606	LEAR	47	GB	0206.8	0209.1	5.3	54			
	3750	TYKW	20	GRF	0228.0	0240	45.0	3.0	1.5		
	9100	GORK	1	S	0352.8	0353.1	1.5	20.0	10.0		
	606	LEAR	8	S	0353.8	0353.8	.5	170			
	8800	LEAR	8	S	0353.8	0354.1	.8	17			
	4995	LEAR	8	S	0353.8	0354.1	.7	18			
	5730	IRKU	1	S	0353.9	0354.2	1.5	19.0			R
	3750	TYKW	5	S	0354.0	0354.2	2.0	9.0	2.5		
	9400	TYKW	5	S	0354.0	0354.2	2.0	15.0	4.0		
	3750	TYKW	5	S	0415.0	0420	12.0	2.0	1.0		
	9400	TYKW	5	S	0419.5	0420.0	1.5	7.0	2.0		
	8800	LEAR	8	S	0419.6	0420.0	.9	11			
	9100	GORK	1	S	0419.7	0420.0	2.3	7.0	3.0		
	3750	TYKW	20	GRF	0440.0	0505	70.0	2.0	.7		
	2000	TYKW	20	GRF	0450.0	0506	40.0	1.5	.7		
	9400	TYKW	20	GRF	0458.0	0505	60.0	4.0	2.0		
	410	LEAR	8	S	0507.8	0507.8	1.2	240			
	606	LEAR	47	GB	0524.3	0524.3	.2	650			
	606	LEAR	8	S	0526.6	0526.8	.2	320			
	1000	TYKW	45	C	0526.6	0526.8	.3	170.0	17.0		
	3750	TYKW	5	S	0556.0	0604	20.0	2.0	1.0		
	410	LEAR	8	S	0607.1	0608.1	1.7	63			
	245	LEAR	8	S	0607.8	0608.1	1.0	20			
	11800	RERN	41	F	0651.2	0657.2	8.0	51.0			
	3000	POTS	42	SER	0652.0	0657.4	11.0	24.0			
	536	ONDR	42	SER	0652.4	0654.1	11.0	377.0			
	3200	RERN	41		0652.5	0657.0	8.0	33.0			ONLY PAPER REC
	5200	RERN	41		0652.5	0657.1	6.0	78.0			ONLY PAPER REC
	8400	RERN	41		0652.7	0657.2	6.0	77.0			
	9500	POTS	42	SER	0652.7	0657.3	5.6	39.0			
	808	ONDR	42	SER	0652.8	0652.8	5.0	115.0			

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
04	5730	IRKU	42	SER	0652.8	0653.1	5.0	8.0			R
	5730	IRKU			0652.8	0654.1		10.0			R
	5730	IRKU			0652.8	0657.4		36.0			R
	606	LEAR	47	GR	0652.8	0653.0	.3	4300			
	4995	LEAR	8	S	0652.8	0654.0	2.0	17			
	8800	LEAR	8	S	0652.8	0654.0	2.0	17			
	1000	TYKW	42	SER	0653.0	0654.1	4.5	220.0	7.0U		
	3750	TYKW	42	SER	0653.0	0657.3	8.0	40.0	3.0U		
	9400	TYKW	42	SER	0653.0	0657.3	8.0	60.0	4.0U		RAIN
	2000	TYKW	42	SER	0653.0	0657.4	8.0	10.0	1.5U		
	410	LEAR	8	S	0654.0	0654.5	.6	97			
	245	LEAR	8	S	0655.0	0655.1	.1	24			
	410	LEAR	8	S	0656.3	0657.1	1.2	68			
	606	LEAR	47	GB	0656.5	0658.8	2.3	720			
	9395	PEKG	3	S	0657.0	0657.5	2.0	54.0	13.4		
	2840	PEKG	3	S	0657.0	0657.5	2.0	27.1	5.3		
	9100	GORK	3	S	0657.1	0657.3	1.1	60.0			
	8800	LEAR	8	S	0657.1	0657.3	.4	55			
	4995	LEAR	8	S	0657.1	0657.3	.5	56			
	2950	GORK	3	S	0657.2	0657.3	1.3	22.0	11.0		
	2695	LEAR	8	S	0657.3	0657.3	.2	25			
	15400	LEAR	8	S	0657.3	0657.3	.7	20			
	2000	TYKW	21	GRF	0735.0	0812	90.0	3.0	1.5		
	3750	TYKW	21	GRF	0735.0U	0800	90.0U	6.0	3.0		RAIN
	9100	GORK	21	GRF	0739.8	0824.5	109.0	18.0			
	245	LEAR	8	S	0744.8	0745.0	.3	23			
	410	LEAR	8	S	0744.8	0745.0	.3	18			
	3100	CRIM	1	S	0757.0	0757.2	2.0	21.0	7.0		
	410	LEAR	8	S	0759.0	0759.5	1.8	20			
	9500	POTS	4	S/F	0807.2	0810.4	7.6	31.0			
	3000	POTS	1	S	0808.8	0810.4	7.2	3.4			
	9400	TYKW	5	S	0809.0	0810.4	5.0	35.0	7.0		
	3750	TYKW	5	S	0809.0	0810.4	5.0	7.0	1.5		
	9395	PEKG	5	S	0809.0	0810.5	6.0	31.0	10.0		
	11800	BERN	3		0809.0	0810.3	4.0	38.0			
	8400	BERN	3		0809.2	0810.3	5.0	40.0			
	9100	GORK	1	S	0809.7	0810.3	2.7	32.0	16.0		
	5730	IRKU	2	S/F	0809.8	0810.4	1.0	32.0			R
	100	HIRA	46	C	0810.0	0810.5	1.4	330.0	76.0		WR
	950	GORK	2	S/F	0810.0	0810.3	1.5	12.0			
	100	GORK	45	C	0810.0	0810.2	1.3	20.0D			
	1000	TYKW	45	C	0810.0	0810.2	2.0	18.0	3.0		
	100	GORK			0810.0	0810.5		20.0D			
	5200	BERN	1		0810.0	0810.1	5.0	15.0			ONLY PAPER REC
	245	LEAR	8	S	0810.0	0810.3	.8	35			
	8800	LEAR	8	S	0810.1	0810.3	1.5	31			
	15400	LEAR	8	S	0810.1	0810.3	.7	19			
	4995	LEAR	4	S/F	0810.1	0810.3	2.2	18			
	113	POTS	41	F	0810.2	0810.7	1.6	180.0	20.0		III
	430	KRAK	8	S	0810.2	0810.3	.6	500.0D			
	500	HIRA	8	S	0810.2	0810.4	.6	400.0			WR
	650	GORK	4	S/F	0810.3	0810.9	1.7	11.0			
	606	LEAR	8	S	0810.3	0810.6	.5	65			
	410	LEAR	8	S	0810.3	0810.3	1.3	410			
	2695	LEAR	4	S/F	0810.6	0812.1	2.9	07			
	606	LEAR	8	S	0841.5	0841.8	.6	11			
	2695	LEAR	8	S	0841.6	0842.1	.6	23			
	2000	TYKW	45	C	0841.6	0841.9	.7	15.0	5.0		
	1000	TYKW	45	C	0841.6	0842.2	.8	5.0	1.5		
	3100	CRIM	26	FAL	0924.0	1100.0		8.0			
	3000	POTS	3	S	0939.2	0942.0	5.6	7.8			
	100	GORK			0939.7	0941.8		490.0			
	100	GORK	46	C	0939.7	0940.8	3.7	550.0			
	200	GORK	4	S/F	0939.8	0940.0	3.0	50.0			
	650	GORK	2	S/F	0939.8	0940.7	3.8	6.0	2.0		
	113	POTS	4	S/F	0939.9	0940.2	2.9	5000.0D	100.0D		III
	950	GORK	1	S	0940.0	0942.0	5.0	7.0	3.5		
	3100	CRIM	1	S	0940.5	0941.5	5.0	6.0	2.0		
	9100	GORK	20	GRF	0950.2	1029.5	68.4	14.0	7.0		
	808	ONDR	8	S	1046.2	1046.2	.2	72.0			
	7000	SAOP	3	S	1129.5	1130.8	1.8	13.0	6.0		24L
	7000	SAOP	29	PBI	1131.2	1131.2	15.9	7.0	3.0		
	2800	OTTA	240	R	1140.0	1220	40.0	5.4	2.7		
	3000	POTS	4	S/F	1220.8	1221.8	1.7	15.0			
	2800	OTTA	3	S	1221.0	1222	2.0	11.2	8.0		
	3200	BERN	1		1221.1	1221.6	1.5	13.0			ONLY PAPER REC
	2800	OTTA	29	PRI	1223.0	1223	30.0	4.4	2.2		
	113	POTS	41	F	1447.5	1447.8	.3	175.0	8.0		III
	19600	BERN	4		1521.1	1529.5	8.4D	449.0			
	2695	SGMR	4	S/F	1528.6	1529.6	4.4D	270			
	410	SGMR	8	S	1528.8	1529.8	1.7	28			
	9400	HUAN	45	C	1528.9	1529.5	1.7	763.9	305.7		L
	1700	NORE	45	C	1528.9	1530.1	1.5	450.0	80.0		
	7000	SAOP	4	S/F	1529.0	1529.6	1.6	425.0	212.0		3L
	2800	OTTA	3	S	1529.0	1529.8	3.0	295.0	54.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
04	11800	BERN	47		1529.0	1529.5	3.0	659.0			
	15400	SGMR	47	GB	1529.0	1529.5	1.00	560			
	606	SGMR	4	S/F	1529.0	1529.8	5.60	100			
	8400	BERN	47		1529.0	1529.5	3.0	547.0			
	3200	BERN	4		1529.0	1529.50	9.0	226.0			ONLY PAPER REC
	5200	BERN	4	F	1529.0	1529.7	4.0	343.0			ONLY PAPER REC
	8800	SGMR	47	GB	1529.1	1529.6	3.40	510			
	1415	SGMR	4	S/F	1529.1	1529.8	5.70	310			
	4995	SGMR	8	S	1529.1	1529.6	2.00	280			
	245	SGMR	47	GB	1529.1	1529.8	1.20	11000			
	35000	BERN	4		1529.5	1529.5	.5	150.00			
	9400	HUAN	29	PRI	1530.6	1530.6	115.4	53.3	22.5		L
	7000	SAOP	29	PRI	1530.6	1530.6	12.9	17.0	8.0		
	2800	OTTA	29	PRI	1532.0	1532	110.0	9.4			
	2800	OTTA	20	GRF	1740.0	1755	30.0	2.8	1.4		
	2800	OTTA	260	FAL	1845.0	1910	25.0	-5.4	-2.7		
	3750	TYKW	21	GRF	2220.0	2259	65.0	3.0	1.5		
	9400	TYKW	20	GRF	2240.0	2259	45.0	6.0	3.0		
	3750	TYKW	5	S	2251.0	2251.7	3.0	4.0	1.5		
	9400	TYKW	5	S	2326.7	2327.1	2.0	16.0	4.0		
	3750	TYKW	5	S	2326.7	2327.1	2.0	15.0	4.0		
	2000	TYKW	5	S	2326.8	2327.2	1.5	6.0	2.0		
	1000	TYKW	5	S	2326.8	2327.3	3.0	8.0	2.5		
	410	LEAR	8	S	2326.8	2327.1	1.0	13			
	2695	LEAR	8	S	2326.8	2327.1	1.0	06			
	15400	LEAR	8	S	2326.8	2327.1	1.0	19			
	8800	LEAR	8	S	2326.8	2327.1	1.0	22			
	606	LEAR	8	S	2326.8	2327.1	.8	05			
	1415	LEAR	8	S	2326.8	2327.1	1.0	10			
	4995	LEAR	8	S	2326.8	2327.1	1.0	13			
	2695	PENT	8	S	2327.0	2327.2	.8	5.8	2.9		
	200	HIRA	8	S	2327.0	2327.1	.6	900.0			0
	245	LEAR	47	GB	2327.1	2327.3	.5	7100			
	100	HIRA	46	C	2327.2	2327.4	1.0	1000.00	240.00		
	606	LEAR	8	S	2346.1	2346.3	.5	22			
	606	LEAR	8	S	2348.5	2348.6	.3	17			
05	200	GORK	43	NS	0300.0		90.00		5.0		
	100	GORK	43	NS	0316.0		129.00		5.0		
	200	GORK	43	NS	0830.0		228.0E		5.0		
	100	GORK	43	NS	0904.0		56.00		5.0		
	208	VORO	44	NS	2200.0E		180.00		12.0		
	3750	TYKW	20	GRF	0020.0	0040	45.0	2.0	1.0		
	9400	TYKW	20	GRF	0020.0	0040	40.0	4.0	1.5		
	606	LEAR	8	S	0136.8	0136.8	.2	24			
	1000	TYKW	45	C	0212.5	0212.8	4.5	3.0	.7		
	3750	TYKW	21	GRF	0220.0	0420	173.00	6.0	3.50		
	3750	TYKW	20	GRF	0220.0	0233	40.0	3.0	1.5		
	9400	TYKW	21	GRF	0220.0	0250	40.0	4.0	2.0		
	2000	TYKW	20	GRF	0220.0	0420	173.00	4.0	2.50		
	9400	TYKW	5	S	0245.0	0245.3	1.0	4.0	1.5		
	9400	TYKW	21	GRF	0300.0	0420	133.00	4.0	2.50		
	1000	TYKW	5	S	0319.0	0320.6	4.0	4.0	1.0		
	200	GORK	4	S/F	0331.7	0333.0	3.6	60.0			
	100	GORK	8	S	0332.0	0332.30	.8	75.00			
	9100	GORK	20	GRF	0444.4	0456.1	27.6	7.0	3.5		
	9400	TYKW	5	S	0455.0	0458	15.0	4.0	1.5		
	9100	GORK	22	GRF	0529.5	0542.6	30.0	20.0			
	9400	TYKW	21	GRF	0715.0	0731	45.0	4.0	2.0		
	3750	TYKW	21	GRF	0715.0	0722	45.0	2.0	1.0		
	3000	POTS	4	S/F	0737.5	0739.1	3.0	17.0			
	9500	POTS	4	S/F	0737.7	0738.2	.8	37.0			ONLY PAPER REC
	3200	BERN	2		0738.0	0739.0	4.0	17.0			
	9100	GORK	21	GRF	0738.1	0825.3	99.4	13.0			
	536	ONDR	45	C	0738.1	0739.3	4.0	36.0	3.0		
	808	ONDR	2	S/F	0738.3	0739.4	2.0	14.0	4.0		
	8800	ATHN	8	S	0738.3	0739.0	1.8	71			
	650	GORK	46	C	0738.4	0739.1	3.2	19.0			
	950	GORK	3	S	0738.4	0739.2	3.5	51.0			
	650	GORK			0738.4	0740.6		4.5			
	430	KRAK	8	S	0738.5	0738.5	.8	120.0			
	810	KRAK	1	S	0738.5	0739.0	.5	11.0	5.0		
	9400	TYKW	5	S	0738.5	0739.1	1.0	73.0	20.0		
	2695	ATHN	8	S	0738.5	0739.0	1.00	17			
	4995	ATHN	8	S	0738.5	0739.0	.80	56			
	1415	ATHN	8	S	0738.6	0739.1	1.00	18			
	3750	TYKW	5	S	0738.6	0739.1	1.0	26.0	8.0		
	500	HIRA	7	C	0738.6	0738.8	.5	80.0	4.0		MR
	1000	TYKW	5	S	0738.7	0739.2	1.3	28.0	8.0		
	9100	GORK	4	S/F	0738.7	0739.1	.9	66.0			
	2000	TYKW	5	S	0738.7	0739.1	1.3	17.0	5.0		
	2950	GORK	3	S	0738.8	0739.1	1.0	26.0	13.0		
	100	HIRA	46	C	0738.8	0739.0	1.4	970.0	176.0		0
	260	ONDR	8	S	0738.9	0738.9	.5	222.00			
	234	POTS	4	S/F	0739.0	0739.4	6.0	400.0	130.0		III

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05	100	GORK	8	S	0739.0	0739.2	.9	70.00			
	200	GORK	4	S/F	0739.0	0739.2	.6	60.0			
	29	UPIC	42	SER	0739.0	0739.2	17.0				
	113	POTS	4	S/F	0739.0	0739.2	5.0	350.0	60.0		III
	204	IZMI	5	S	0739.0	0739.2	.8	94.0	50.0		
	5200	BERN	3		0739.0	0739.0	3.0	69.0			ONLY PAPER REC
	33	UPIC	42	SER	0739.1	0739.1	16.7				
	9400	TYKW	29	PRI	0739.5		5.0	5.0	3.0		
	2000	TYKW	29	PRI	0740.0		5.0	3.0	1.5		
	1000	TYKW	29	PRI	0740.0		5.0	4.0	2.0		
	260	ONDR	42	SER	0904.0	1045.8	190.0	16.0			
	9100	GORK	20	GRF	0936.8	1019.7	69.0	8.0	4.0		
	29	UPIC	42	SER	1128.5	1406.3	159.0				
	33	UPIC	42	SER	1128.5		158.3				
	2800	OTTA	240	R	1245.0	1300	15.0	3.6	1.8		
	2800	OTTA	20	GRF	1305.0	1350	115.0	2.6			
	9400	HUAN	20	GRF	1536.7	1543.2	59.3	10.1	2.8		0
	7000	SAOP	3	S	1542.0	1543.2	1.7	17.0	8.0		19L
	7000	SAOP	29	PBI	1543.7	1543.7	5.5	8.0	4.0		
	2000	TYKW	5	S	2246.0	2246.7	2.0	2.0	.5		
	9400	TYKW	5	S	2250.5	2250.8	1.5	16.0	3.0		
	1700	NORE	1	S	2250.5	2250.7	.8	41.0			L
	100	HIRA	41	F	2311.3	2311.5	3.0	700.0			0
	606	LEAR	8	S	2340.3	2340.5	.3	43			
06	245	LEAR	43	NS	0019.0	0306.6	569.00	100			
	200	HIRA	43	NS	0238.0	0444	418.00	25.0	10.0		MR
	200	GORK	43	NS	0330.0		90.0E		5.0		
	100	GORK	43	NS	0333.0		507.00		10.0		
	100	HIRA	43	NS	0441.0	0516	300.00	180.0	50.0		SR
	29	UPIC	43	NS	0612.6		669.90				
	33	UPIC	43	NS	0612.7		670.60				
	260	ONDR	44	NS	0625.0E	0807.3	458.00	22.0			
	208	VORO	44	NS	2200.0E		180.00		11.0		
	245	LEAR	43	NS	2311.0	0250.6	637.00	200			
	606	LEAR	8	S	0011.0	0011.8	1.0	110			
	3750	TYKW	20	GRF	0022.0	0028	30.0	1.5	.7		
	9400	TYKW	20	GRF	0022.0	0028	40.0	6.0	3.0		
	2000	TYKW	5	S	0027.0	0028	7.0	2.0	.7		
	606	LEAR	8	S	0032.5	0032.8	.3	45			
	606	LEAR	8	S	0111.0	0111.1	1.6	20			
	410	LEAR	4	S/F	0111.0	0111.1	2.1	30			
	3750	TYKW	20	GRF	0125.0	0202	90.0	3.0	1.5		
	606	LEAR	8	S	0150.5	0150.8	.3	22			
	606	LEAR	8	S	0315.8	0317.5	2.0	28			
	3750	TYKW	21	GRF	0340.0	0500	330.0	12.0	6.0		
	9400	TYKW	21	GRF	0340.0	0500	330.0	10.0	5.0		
	1000	TYKW	21	GRF	0340.0	0500	330.0	6.0	3.0		
	2000	TYKW	21	GRF	0340.0	0540	330.0	11.0	6.0		
	245	PALE	47	GB	0401.0	0401.1	.5	840			
	245	LEAR	47	GB	0401.0	0401.1	.3	640			
	9100	GORK	21	GRF	0431.0	0822.8	379.0	44.0			
	100	GORK	8	S	0434.3	0434.6	.7	85.00			
	100	GORK	27	RF	0443.0	0516.9	437.0E	690.00			
	410	LEAR	8	S	0458.5	0459.3	1.3	34			
	3750	TYKW	20	GRF	0533.0	0540	70.0	3.0	1.5		
	410	LEAR	8	S	0655.8	0656.1	.8	19			
	606	LEAR	8	S	0655.8	0656.1	.8	34			
	536	ONDR	8	S	0656.1	0656.1	.2	34.0			
	234	POTS	4	S/F	0712.1	0712.2	3.0	500.0	125.0		
	2000	TYKW	5	S	0817.0	0820.1	7.0	19.0	8.0		
	1000	TYKW	45	C	0817.0	0818.5	7.0	93.0	3.0		
	3750	TYKW	45	C	0817.0	0820.2	15.0	60.0	23.0		
	9400	TYKW	45	C	0817.0	0819.4	15.0	57.0	23.0		
	2840	PEKG	3	S	0817.0	0820.2	56.0				
	3100	CRIM	3	S	0817.0	0820.0	5.0	30.0	10.0		
	5200	BERN			0817.0	0819.2	33.0	123.0			ONLY PAPER REC
	8800	ATHN	4	S/F	0817.1	0819.3	5.5	78			
	4995	ATHN	4	S/F	0817.1	0819.3	5.50	110			
	3200	BERN			0817.1	0820.0	28.0	44.0			ONLY PAPER REC
	9100	GORK	4	S/F	0817.4	0819.4	5.0	60.0			
	2950	GORK	20	GRF	0817.4	0820.1	66.0	90.0	15.0		
	9500	POTS	25	R	0817.7	0821.4	96.0	51.0			
	2695	ATHN	4	S/F	0818.0	0820.1	3.50	36			
	3000	POTS	25	R	0818.5	0822.1	93.0	31.0			
	1415	ATHN	4	S/F	0819.0	0819.8	2.50	11			
	3100	CRIM	29	PBI	0822.0	0822.0	22.0	8.0	3.0		
	2000	TYKW	29	PRI	0824.0		45.0U	8.0	4.0U		
	1000	TYKW	29	PRI	0824.0		45.0U	2.0	1.0U		
	9400	TYKW	29	PBI	0832.0		36.0U	15.0	7.0U		
	3750	TYKW	29	PRI	0832.0		36.0U	14.0	7.0U		
	536	ONDR	4	S/F	0909.5	0910.3	2.0	38.0			
	3100	CRIM	26	FAL	0912.0	1110.0		20.0			
	9400	TYKW	45	C	0913.0	0915.7	5.0D	45.0U	20.0D		
	3750	TYKW	45	C	0913.0	0915.7	10.0U	28.0U	7.0U		

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06	2000	TYKW	45	C	0913.0	0915.7	10.0U	20.0U	8.0U		
	9500	POTS	4	S/F	1009.2	1009.8	3.8	12.0			
	9100	GORK	1	S	1009.4	1009.8	2.0	10.0	5.0		
	536	ONOR	42	SER	1025.5	1031.5	9.5	25.0			
	35000	BERN	3		1428.1	1429.7	1.60	150.0U			
	11800	BERN	3		1428.1	1429.3	1.20	26.0			
	19600	BERN	3		1428.1	1429.0	1.0	100.0			
	7000	SAOP	27	RF	1430.5		23.5	10.0	5.0		
	2800	OTTA	1	S	1731.5	1731.8	1.0	2.4	1.2		
	2800	OTTA	21	GRF	1810.0	1824	90.0	4.2	2.1		
	7000	SAOP	8	S	1911.4	1911.6	.5	21.0	10.0		8R
	2800	OTTA	8	S	1911.5	1911.6	.6	8.2	4.1		
	2800	OTTA	1	S	1918.0	1918.2	1.2	3.4	1.7		
	9400	HUAN	20	GRF	2023.3	2035.2	49.3	5.2	2.4		0
	2695	PENT	21	GRF	2140.0	2205	50.0	2.6	1.3		
	2695	PENT	8	S	2224.0	2224.1	.2	2.6			
07	200	GORK	43	NS	0245.0		435.0		5.0		
	100	GORK	44	NS	0257.0E		423.00		5.0		
	100	HIRA	44	NS	0520.0E	0805	250.00	20.0	15.0		SR
	33	UPIC	43	NS	0528.0		679.40				
	29	UPIC	43	NS	0529.0	1108.8	678.30				
	260	ONOR	44	NS	0623.0E	1202	460.00	199.0	11.0		
	430	KRAK	44	NS	0700.0E	1148.0	360.00	21.0	3.0		
	208	VORO	44	NS	2200.0E		240.00		21.0		
	2695	PENT	8	S	0009.8	0009.9	.5	4.0	2.0		
	3750	TYKW	21	GRF	0050.0	0120	75.0	2.0	1.0		
	2000	TYKW	21	GRF	0050.0	0120	70.0	1.5	.7		
	3750	TYKW	5	S	0136.0	0144	25.0	3.0	1.5		
	2000	TYKW	5	S	0136.0	0138	7.0	1.0	.5		
	2695	PALE	47	GR	0159.1	0206.1	72.0	70			
	2000	TYKW	21	GRF	0209.0	0220	55.0	1.5	.7		
	3750	TYKW	21	GRF	0210.0	0224	45.0	3.0	1.0		
	9400	TYKW	45	C	0216.0	0231	20.0	3.0	1.5		
	9400	TYKW	5	S	0239.0	0245	24.0	2.0	1.0		
	2000	TYKW	5	S	0241.0	0244	7.0	1.0	.5		
	3750	TYKW	5	S	0241.0	0244	10.0	1.5	.5		
	245	PALE	8	S	0250.3	0250.6	.5	290			
	3750	TYKW	20	GRF	0310.0	0328	50.0	3.0	1.5		
	9400	TYKW	20	GRF	0310.0	0328	50.0	6.0	2.0		
	2000	TYKW	20	GRF	0310.0	0328	35.0	2.0	1.0		
	1000	TYKW	45	C	0415.0	0435.7	55.0	6.0	2.0		
	9100	GORK	22	GRF	0431.1	0452.3	39.0	10.0	5.0		
	3750	TYKW	20	GRF	0438.0	0443	40.0	3.0	1.0		
	2000	TYKW	20	GRF	0438.0	0441	30.0	1.5	.7		
	9100	GORK	20	GRF	0520.4	0541.0	91.0	13.0	6.0		
	410	LEAR	8	S	0522.1	0523.0	2.0	17			
	113	POTS	4	S/F	0647.1	0647.2	.4	175.0	8.0		III
	3750	TYKW	28	PRE	0700.0	0734	34.0	2.0	1.0		
	9100	GORK	22	GRF	0702.5	0748.0	293.0E	20.0			
	9500	POTS	27	RF	0706.9	0739.9	48.0	4.6			
	3200	BERN	20		0733.5	0738.0	22.0	19.0			ONLY PAPER REC
	5200	BERN	20		0733.5	0738.0	25.0	37.0			ONLY PAPER REC
	3750	TYKW	45	C	0734.0	0737.9	15.0	28.0	10.0		
	2840	PEKG	3	S	0734.0	0738	34.0	17.1	5.3		
	4995	ATHN	4	S/F	0734.1	0737.8	12.7	35			
	2950	GORK	20	GRF	0734.5	0738.0	40.0	13.0			
	2000	TYKW	5	S	0735.0	0738 U	10.0	10.0U	4.0		
	3100	CRIM	3	S	0735.0	0738.5	18.0	6.0	5.0		
	2695	ATHN	4	S/F	0736.0	0738.0	7.30	11			
	4995	LEAR	4	S/F	0736.6	0738.0	5.2	29			
	8800	LEAR	4	S/F	0737.1	0737.8	2.4	03			
	2695	LEAR	4	S/F	0737.1	0738.3	3.0	16			
	1415	LEAR	4	S/F	0737.3	0738.6	3.3	04			
	8800	ATHN	4	S/F	0737.3	0738.3	3.7	04			
	3000	POTS	25	R	0737.5	0738.1	43.0	16.0			
	3100	CRIM	29	PRI	0743.0	0743.0		8.0			
	2000	TYKW	29	PRI	0745.0		70.0	3.0	1.5		
	245	LEAR	8	S	0747.3	0747.6	1.0	77			
	3750	TYKW	29	PRI	0749.0		65.0	8.0	3.0		
	3000	POTS	1	S	0813.2	0813.4	.7	2.6			
	536	ONOR	8	S	0949.5	0949.5	.2	49.0			
	113	POTS	4	S/F	1107.3	1108.6	2.9	700.0	70.0		III
	810	KRAK	8	S	1147.8	1147.8	.2	59.0			
	245	SGMR	4	S/F	1201.3	1202.3	2.5	280			
	410	SGMR	8	S	1201.6	1202.1	1.20	22			
	113	POTS	42	SER	1201.7	1202.3	7.1	1750.0	15.0		III
	234	POTS	42	SER	1202.0	1202.3	6.4	325.0	2.0		III
	245	SGMR	8	S	1207.5	1208.1	1.5	150			
	410	SGMR	8	S	1207.6	1208.0	.70	13			
	2800	OTTA	20	GRF	1220.0	1242	40.0	2.0	1.5		
	2800	OTTA	1A	S	1310.0	1320	10.0	2.0	1.0		
	4995	SGMR	4	S/F	1311.1	1314.1	3.90	21			
	3200	BERN	41		1311.5	1314.1	4.0	11.0			ONLY PAPER REC
	2695	SGMR	4	S/F	1311.5	1314.1	3.50	01			

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07	5200	BERN	41		1311.5	1314.1	4.0	32.0			
	9500	POTS	3	S	1311.5	1313.3	3.3	12.0			ONLY PAPER REC
	3000	POTS	3	S	1311.5	1314.3	3.5	14.0			
	1470	POTS	1	S	1311.5	1314.3	3.5	5.2			
	7000	SAOP	1	S	1311.8	1312.3	1.1	8.0	4.0		
	2800	OTTA	1	S	1311.9	1312.1	1.2	2.8	1.4		38L
	1415	SGMR	8	S	1313.6	1314.3	1.5	09			
	9400	HUAN	1	S	1313.6	1314.3	1.7	15.3	5.5		0
	7000	SAOP	3	S	1313.8	1314.3	.7	29.0	14.0		26L
	8800	SGMR	8	S	1313.8	1314.3	1.20	17			
	2800	OTTA	1	S	1314.0	1314.2	1.0	6.4	3.0		
	1415	ATHN	8	S	1314.1	1314.3	.70	08			
	4995	ATHN	8	S	1314.1	1314.3	.7	33			
	8800	ATHN	8	S	1314.1	1314.3	.7	25			
	2695	ATHN	8	S	1314.1	1314.3	.70	13			
	7000	SAOP	29	PRI	1314.5	1314.6	1.0	7.0	3.0		
	234	POTS	42	SER	1322.7	1327.2	4.6	170.0	1.0E		III
	113	POTS	4	S/F	1326.2	1326.7	2.0	325.0	10.0		III
	3000	POTS	27	RF	1351.5	1358.9	64.00	16.0			
	2800	OTTA	20	GRF	1353.0	1357	75.0	12.4	4.4		
	3200	BERN	20		1353.0	1356.5	20.0	16.0			
	5200	BERN	20		1353.0	1356.5	15.0	16.0			ONLY PAPER REC
	9500	POTS	27	RF	1353.5	1357.5	62.00	8.9			ONLY PAPER REC
	2695	ATHN	4	S/F	1353.6	1359.0	14.40	15			
	4995	ATHN	4	S/F	1354.1	1359.5	13.9	34			
	7000	SAOP	20	GRF	1355.2		8.8	10.0	5.0		24L
	8800	ATHN	4	S/F	1355.3	1359.6	12.7	13			
	1470	POTS	27	RF	1355.5	1400.3	66.00	2.0			
	1415	ATHN	4	S/F	1357.1	1359.0	10.90	09			
	9500	POTS	1	S	1409.0	1410.3	2.3	7.5			
	2800	OTTA	32	ABS	1550.0	1700	85.0	-3.4	-2.0		
	7000	SAOP	47	GB	1857.1	1906.9	31.6	587.0	293.0		14L
	2800	OTTA	47	GB	1858.0	1907.2	86.0	585.0	199.0		
	4995	PALE	47	GB	1901.1	1907.0	20.5	560			
	2695	PALE	47	GB	1901.1	1907.1	20.5	480			
	15400	PALE	47	GB	1902.1	1906.8	19.5	190			
	8800	PALE	47	GB	1902.1	1906.8	19.5	390			
	1415	PALE	47	GB	1902.8	1907.1	18.8	230			
	9400	HUAN	45	C	1903.1E	1906.8	25.10	506.5	288.2		L
	606	PALE	47	GB	1907.3	1908.3	14.3	26			
	245	PALE	47	GB	1910.6	1912.5	11.0	90			
	7000	SAOP	41	F	1911.4						
	410	PALE	47	GB	1914.6	1916.8	7.0	56			2
	1415	PALE	47	GB	1920.3	1921.6	10.0	200			
	15400	PALE	47	GB	1921.6	1921.6	10.0	72			
	2695	PALE	47	GB	1921.6	1921.6	10.0	200			
	4995	PALE	47	GB	1921.6	1921.8	10.0	139			
	8800	PALE	47	GB	1921.6	1921.8	10.0	100			
	606	PALE	47	GB	1921.6	1921.8	10.0	90			
	410	PALE	47	GB	1921.6	1922.0	10.0	23			
	245	PALE	47	GB	1921.8	1922.1	9.8	40			
	9400	HUAN	30	PRI	1928.2	1928.2	176.8	107.0	35.4		L
	7000	SAOP	29	PRI	1928.8	1939.6		170.0			
	4995	PALE	4	S/F	1931.6	1934.3	18.2	50			
	410	PALE	47	GB	1931.6	1933.6	18.2	77			
	606	PALE	47	GB	1931.6	1935.3	18.2	200			
	2695	PALE	47	GB	1931.6	1935.1	18.2	110			
	15400	PALE	4	S/F	1931.6	1933.8	18.2	30			
	1415	PALE	47	GB	1931.6	1935.3	18.2	99			
	245	PALE	47	GB	1931.6	1935.6	18.2	230			
	9400	HUAN	4	S/F	1938.3	1939.8	2.7	24.2	15.7		L
	200	HIRA			1948.0E	2106.0	78.00	260.0			MR
	100	HIRA			1948.0E	2148.3	120.00	105.0			SR
	100	HIRA			1948.0E	2011.5	23.50	630.0			SR
	100	HIRA	48	C	1948.0E	2001.4U	192.00	930.0	146.0		SR
	200	HIRA	24	R	1948.0E	0750	830.00	10.0	5.0		WR
	200	HIRA	48	C	1948.0E	2150.3	218.00	510.0	76.0		MR
	9400	HUAN	1	S	1948.3	1951.6	4.9	18.2	10.1		L
	410	PALE	47	GB	1949.3	1949.8	11.5	130			
	1415	PALE	47	GB	1949.6	1949.8	11.5	480			
	245	PALE	47	GB	1949.8	1950.0	11.5	180			
	2695	PALE	47	GB	1949.8	1951.3	11.5	220			
	606	PALE	47	GB	1949.8	1950.1	11.5	220			
	4995	PALE	47	GB	1949.8	1950.8	11.5	91			
	500	HIRA	48	C	1950.0E	2021.6U	190.00	330.0	60.0		SR
	15400	PALE	47	GB	1950.6	1950.6	10.7	26			
	606	PALE	47	GB	2000.8	2001.3	14.5	270			
	410	PALE	47	GB	2001.3	2002.6	14.5	139			
	4995	PALE	4	S/F	2001.3	2001.5	14.5	37			
	1415	PALE	47	GB	2001.3	2001.5	14.5	370			
	2695	PALE	47	GB	2001.3	2001.8	14.5	90			
	245	PALE	47	GB	2001.3	2002.0	14.5	70			
	410	PALE	47	GB	2015.8	2017.8	11.3	30			
	606	PALE	47	GB	2015.8	2018.1	11.3	119			
	4995	PALE	4	S/F	2015.8	2016.1	11.3	38			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
07	245	PALE	47	GB	2015.8	2016.5	11.3	66			
	2695	PALE	47	GB	2015.8	2016.6	11.3	70			
	1415	PALE	47	GB	2016.1	2018.0	11.0	87			
	2800	OTTA	30	PRI	2024.0	2024	340.00	90.0			
	410	PALE	4	S/F	2034.8	2036.1	16.2	84			
	606	PALE	47	GB	2035.6	2036.1	16.2	110			
	245	PALE	47	GB	2036.1	2037.1	16.2	29			
	1415	PALE	47	GB	2036.1	2036.3	16.2	63			
	2695	PALE	4	S/F	2036.1	2037.3	16.2	46			
	4995	PALE	4	S/F	2036.1	2037.3	16.2	22			
	1000	TYKW	45	C	2048.0E	2104.6	172.00	340.0	30.00		
	2000	TYKW			2058.0E	2111.4	13.40	68.0			
	2000	TYKW	45	C	2058.0E	2200	162.00	68.0	35.00		
	3750	TYKW	45	C	2059.0E	2115	161.00	60.00	35.00		
	9400	TYKW	45	C	2059.0E	2102 U	161.00	77.00	45.00		
	3750	TYKW			2059.0E	2200	10.10	60.0			
	2800	OTTA	22	GRF	2100.0	2122	35.0	16.6	8.3		
	410	PALE	47	GB	2103.8	2105.0	15.8	42			
	245	PALE	47	GB	2103.8	2106.1	15.8	240			
	606	PALE	47	GB	2103.8	2104.8	15.8	40			
	1415	PALE	47	GB	2104.3	2104.8	15.3	29			
	245	PALE	47	GB	2143.0	2143.3	15.1	50			
	410	PALE	4	S/F	2146.3	2150.5	11.8	119			
	2800	OTTA	20	GRF	2147.0	2200	75.0	32.0	12.0		
	606	PALE	47	GB	2148.5	2152.3	9.6	28			
	1415	PALE	47	GB	2151.6	2152.3	6.5	17			
	2695	PALE	47	GB	2154.0	2155.8	4.1	20			
	208	VORO	49	GB	2200.0E	2202 U	37.00	150.00			
	208	VORO			2200.0E	2203 U	3.00	150.00			
	1000	TYKW			2202.5	2202.5	1	65.0	D		
	606	PALE	8	S	2224.1	2224.5	1.2	16			
	410	PALE	8	S	2224.1	2224.8	1.5	22			
	1415	PALE	8	S	2224.8	2225.0	.7	11			
	208	VORO	29	PRI	2237.0	2340	63.0	21.0			
	1000	TYKW	29	PRI	2340.0		140.0	5.0	2.5		
	2000	TYKW	29	PRI	2340.0		180.0	12.0	5.0		
	9400	TYKW	29	PRI	2340.0		100.0	14.0	6.0		
	3750	TYKW	29	PRI	2340.0		175.0	12.0	5.0		
08	33	UPIC	43	NS	0555.6	1225.4	391.00				
	29	UPIC	43	NS	0556.1		390.70				
	200	GORK	43	NS	0612.0		174.00		5.0		
	260	ONOR	44	NS	0727.0E		37.30	30.0	8.0		
	245	PALE	43	NS	1700.0	1833.0	700.00	1000			
	208	VORO	44	NS	2200.0E		240.00		36.0		
	245	LEAR	43	NS	2310.0	0306.5U	290.00	130			
	9400	TYKW	20	GRF	0240.0	0309	50.0U	6.0	2.0		RAIN
	3750	TYKW	20	GRF	0241.0	0309	70.0	7.0	3.0		
	2000	TYKW	20	GRF	0241.0	0310	70.0	1.5	.7		
	2950	GORK	20	GRF	0321.0E	0325.0	44.00	5.0			
	9100	GORK	22	GRF	0321.0E		329.00				
	9395	PEKG	46	C	0338.0	0338.5	3.0	35.0			0
	1700	NOBE	1	S	0413.7	0413.8	.5	21.0			
	245	LEAR	8	S	0929.1	0929.5	.7	47			
	9395	PEKG	45	C	1020.0	1021.4	4.0	15.0			
	113	POTS	4	S/F	1113.3	1113.3	.40	775.0			
	9500	POTS	1	S	1210.7	1211.4	1.1	6.2			
	113	POTS	4	S/F	1258.5	1258.6	1.0	150.0	30.0		
	7000	SAOP	27	RF	1417.2		14.7	15.0	7.0		
	8800	SGMR	8	S	1419.1	1419.6	2.0	10			
	9500	POTS	4	S/F	1419.5	1419.8	1.8	12.0			
	15400	SGMR	8	S	1419.6	1419.8	1.20	18			
	2800	OTTA	20	GRF	1605.0	1624	55.0	2.2	1.0		
	7000	SAOP	1	S	1711.9	1713.2	1.6	10.0	5.0		0
	7000	SAOP	29	PRI	1713.5	1713.5	6.0	7.0	3.0		
	2800	OTTA	240	R	1745.0	1810	25.0	4.0	2.0		
	2800	OTTA	240	AR	2020.0	2050	30.0	4.0			
	2800	OTTA	46	F C	2025.2	2027.9	6.8	83.0	44.0		
	9400	HUAN	45	C	2025.2	2026.7	3.1	450.4	236.2		L
	4995	PALE	8	S	2025.3	2026.8	4.8	170			
	2695	PALE	8	S	2025.5	2027.8	13.1	92			
	8800	PALE	8	S	2025.5	2026.3	5.1	460			
	15400	PALE	8	S	2025.6	2026.6	10.0	280			
	1415	PALE	8	S	2025.8	2028.1	5.0	70			
	410	PALE	47	GB	2025.8	2027.5	6.8	760			
	606	PALE	8	S	2026.1	2027.6	5.9	46			
	9400	HUAN	29	PRI	2028.3	2028.3	17.8	62.7	16.8		L
	2800	OTTA	29	PRI	2032.0	2032	14.0	15.2	5.0		
	15400	PALE	8	S	2058.6	2058.8	.2	27			
	9400	TYKW	45	C	2124.0	2133.4	14.0	71.0	23.0		
	1000	TYKW	5	S	2126.3	2126.7	1.0	9.0	2.0		
	3750	TYKW	45	C	2127.0	2133.4	11.0	65.0	20.0		
	15400	PALE	47	GB	2127.3	2127.6	2.5	33			
	2800	OTTA	28	PRE	2127.5	2129.8	3.7	6.8	4.6		
	1000	TYKW	5	S	2128.0	2134	8.0	7.0	3.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
08	2000	TYKW	45	C	2128.0	2133.6	10.0	27.0	9.0		
	2695	PALE	47	GB	2128.8	2129.5	11.8	28			
	4995	PALE	47	GB	2129.3	2129.3	.2	17			
	2800	OTTA	3	S	2131.2	2133.6	7.8	45.0	22.0		
	8800	PALE	4	S/F	2132.3	2133.3	3.5	66			
	1415	PALE	4	S/F	2133.1	2133.6	5.4	24			
	1000	TYKW	29	PRI	2136.0		280.0	4.0	3.0		
	3750	TYKW	29	PRI	2138.0		290.0	10.0	5.0		
	9400	TYKW	29	PRI	2138.0		40.0	19.0	9.0		
	2000	TYKW	29	PRI	2138.0		290.0	6.0	3.0		
	2800	OTTA	29	PRI	2138.0	2138	90.0	9.4	4.6		
	9400	TYKW	45	C	2224.0	2226.8	14.0	8.0	2.5		
	9400	TYKW	5	S	2320.7	2321.1	2.5	9.0	3.0		
09	200	GORK	44	NS	0300.0E		390.00		10.0		
	100	GORK	44	NS	0324.0E		360.00		10.0		
	204	IZMI	43	NS	0600.0		3600.0	54.0			
	260	ONDR	44	NS	0720.0E		410.00	34.0	10.0		
	245	PALE	43	NS	1644.0	1938.3	226.0	250			
	208	VORO	44	NS	2200.0E		240.00		31.0		
	245	LEAR	43	NS	2310.0	0306.5	639.00	130			
	245	PALE	47	GB	0006.8	0007.3	5.7	58			
	3750	TYKW	45	C	0251.0	0257.2	8.0	20.0	4.0		
	9395	PEKG	22	GRF	0252.0	0257.3	34.0	14.0			
	2840	PEKG	45	C	0252.0	0257.3	22.0	21.0	5.0		
	2000	TYKW	45	C	0253.0	0257.3	6.0	10.0	2.5		
	9400	TYKW	45	C	0253.0	0257.4	7.0	18.0	9.0		
	15400	LEAR	4	S/F	0253.1	0257.1	14.0	13			
	8800	LEAR	47	GB	0253.8	0257.1	10.7	24			
	1000	TYKW	45	C	0254.0	0257.4	5.0	1.5	.5		
	4995	LEAR	47	GB	0254.1	0257.1	6.5	23			
	2695	LEAR	4	S/F	0255.3	0257.1	3.5	16			
	2000	TYKW	29	PRI	0259.0		90.0	2.0	1.0		
	3750	TYKW	29	PRI	0259.0		240.0	6.0	3.0		
	9400	TYKW	29	PRI	0300.0		30.0	8.0	4.0		
	200	HIRA	46	C	0355.6	0356.3	.9	220.0	83.0		0
	245	LEAR	47	GB	0355.8	0356.3	1.8	3200			
	606	LEAR	8	S	0355.8	0356.3	1.2	13			
	410	LEAR	4	S/F	0355.8	0356.3	3.0	13			
	500	HIRA	7	C	0355.9	0356.4	.6	18.0	9.0		ML
	100	HIRA	46	C	0356.0	0356.3	1.2	11000.0	1540.0		ML
	245	PALE	47	GB	0356.1	0356.3	2.0	2700			
	245	PALE	47	GB	0409.1	0409.3	7.5	41			
	15400	PALE	8	S	0409.6	0409.8	.4	44			
	2695	PALE	8	S	0412.0	0412.3	.30	22			
	9400	TYKW	5	S	0517.0	0517.7	2.0	10.0	4.0		
	9100	GORK	1	S	0517.1	0517.5	2.2	16.0	8.0		
	8800	LEAR	8	S	0517.5	0517.6	1.3	21			
	4995	LEAR	8	S	0517.5	0517.6	1.3	10			
	9400	TYKW	29	PRI	0519.0		8.0	3.0	1.5		
	9100	GORK	20	GRF	0609.7	0619.2	41.8	10.0	5.0		
	9100	GORK	20	GRF	0723.5	0725.6	20.7	10.0			
	9100	GORK	20	GRF	0752.8	0820.0	52.0	12.0	6.0		
	410	LEAR	8	S	0802.3	0802.5	.3	21			
	113	POTS	8	S	0806.6	0806.9	.8	600.0	200.0		III
	113	POTS	4	S/F	0839.5	0839.7	.5	200.0	40.0		
	113	POTS	8	S	0934.6	0935.0	.6	450.0	150.0		
	2800	OTTA	4	S/F	1459.0	1502	8.0	43.0	20.0		
	8400	BERN	46		1459.0	1501.7	6.0	173.0			
	4995	ATHN	4	S/F	1459.0	1502.6	8.5	119			
	8800	ATHN	4	S/F	1459.0	1502.6	8.5	150			
	3200	BERN	4		1459.0	1501.8	14.0	92.0			ONLY PAPER REC
	5200	BERN	46		1459.00	1501.8	8.00	122.00			ONLY PAPER REC
	11800	BERN	46		1459.0	1501.8	6.0	110.0			
	7000	SAOP	46	C	1459.4	1501.7	7.2	161.0	80.0		18L
	1415	ATHN	4	S/F	1500.0	1502.6	5.80	19			
	19600	BERN	46		1500.00	1501.8	3.00	30.00			
	2800	OTTA	29	PRI	1507.0	1507	100.0	3.8	1.9		
	245	PALE	47	GB	1653.3	1654.8	3.7	69			
	8800	PALE	47	GB	1653.3	1653.6	10.5	57			
	1415	PALE	47	GB	1653.3	1653.6	1.0	34			
	15400	PALE	47	GB	1653.3	1653.5	.5	37			
	2695	PALE	47	GB	1653.3	1653.3	11.0	43			
	4995	PALE	47	GB	1653.5	1653.6	.3	17			
	410	PALE	47	GB	1836.1	1836.3	.5	1800			
	245	PALE	47	GB	1836.6	1837.3	5.7	1100			
	2695	PENT	22	GRF	1950.0	2010	60.0	2.8	1.2		
	200	HIRA	27	RF	1950.0E	2052	820.00	120.0	35.0		SR
	100	HIRA	27	RF	1950.0E	2029	820.00	125.0	42.0		SR
	1000	TYKW	21	GRF	2120.0	2220	240.0	3.0	1.5		
	3750	TYKW	20	GRF	2120.0	2325	270.0	8.0	4.0		
	2000	TYKW	20	GRF	2120.0	2230	270.0	4.0	2.0		
10	245	PALE	43	NS	0221.0	0234.3	141.00	13			
	100	GORK	44	NS	0303.0E		297.00		10.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
10	260	ONDR	44 NS	0550.0E		504.00	23.0			
	1000	TYKW	45 C	0052.0	0052.5	1.0	6.0	1.0		
	245	LEAR	8 S	0144.0	0144.6	.8	330			
	3750	TYKW	5 S	0320.0	0322	10.0	2.0	.5		
	245	LEAR	8 S	0342.0	0342.1	.6	11			
	410	LEAR	8 S	0342.1	0342.1	.7	11			
	9100	GORK	21 GRF	0441.8		438.00				
	2950	GORK	21 GRF	0536.0	0721.0	139.0	8.8			
	11800	BERN	47 GB	0608.0	0659.0	90.0	823.0			
	113	POTS	4 S/F	0625.0	0625.4	.6	1600.0	300.0		III
	650	GORK	21 GRF	0628.8	0709.0	79.0	9.5			
	2000	TYKW	5 S	0631.0	0633.1	6.0	51.0	11.0		
	3100	CRIM	3 S	0631.0	0632.6	7.0	82.0	27.0		
	6100	KISV	3 S	0631.0	0633.1	7.0	74.0			
	9400	TYKW	5 S	0631.5	0633.1	4.5	69.0	17.0		
	3750	TYKW	5 S	0631.5	0633.2	5.5	110.0	23.0		
	3200	BERN	3	0631.7	0633.0	6.0	86.0			ONLY PAPER REC
	9100	GORK	3 S	0631.8	0632.8	3.4	75.0	37.0		
	950	GORK	3 S	0632.0	0633.1	7.4	32.0			
	808	ONDR	2 S/F	0632.0	0633.4	4.5	15.0	11.0		
	2950	GORK	3 S	0632.2	0633.0	3.2	66.0	33.0		
	8800	MANI	3 S	0632.2	0633.4	3.2	109.8	36.6		
	2695	LEAR	4 S/F	0632.3	0633.1	5.8	79			
	4995	LEAR	4 S/F	0632.3	0633.1	3.2	119			
	8800	ATHN	4 S/F	0632.3	0633.3	5.0	85			
	536	ONDR	2 S/F	0632.3	0633.6	3.5	9.0	6.0		
	650	GORK	4 S/F	0632.4	0633.1	2.9	14.0	4.0		
	9395	PEKG	5 S	0632.4	0633.1	3.6	51.0	14.3		
	1700	NOBE	28 PRE	0632.4	0633.0	25.8	31.0			0
	3000	IZMI	5 S	0632.5	0633.2	2.5	87.0	50.0		
	1000	TYKW	45 C	0632.5	0633.4	4.5	33.0	10.0		
	410	LEAR	8 S	0632.5	0632.8	1.3	139			
	8800	LEAR	4 S/F	0632.5	0633.0	2.1	83			
	8400	BERN	3	0632.5	0633.0	3.0	98.0			
	11800	BERN	3	0632.5	0633.0	3.00	60.0			
	5200	BERN	3	0632.5	0633.0	3.0	157.0			
	1415	ATHN	4 S/F	0632.5	0633.1	3.00	44			
	4995	ATHN	4 S/F	0632.6	0633.3	4.5	119			
	1415	LEAR	4 S/F	0632.6	0633.1	5.7	60			
	2695	ATHN	4 S/F	0632.6	0633.1	2.90	47			
	1415	MANI	3 S	0632.8	0633.4	3.7	34.1	11.4		
	4995	MANI	3 S	0632.8	0633.4	2.6	111.0	37.0		
	606	MANI	3 S	0632.8	0633.5	3.5	23.6	7.8		
	2695	MANI	3 S	0632.8	0633.4	3.2	69.0	23.0		
	606	LEAR	8 S	0633.1	0633.8	.9	21			
	9400	TYKW	29 PBI	0636.0		15.0	4.0	2.0		
	3750	TYKW	29 PBI	0637.0		15.0	3.0	1.0		
	1000	TYKW	29 PBI	0637.0		10.0	4.0	2.0		
	2000	TYKW	29 PBI	0637.0		14.0	2.0	1.0		
	3100	CRIM	30 PBI	0638.0	0706.0	46.0	12.0	4.0		
	1470	POTS	4 S/F	0656.3	0658.8	44.0	181.0			
	2000	TYKW	45 C	0657.0	0659.1	13.0	210.0	50.0		
	3750	TYKW	45 C	0657.0	0659.0	10.0	255.0	55.0		
	9400	TYKW	47 GB	0657.0	0659.0	8.0	615.0	120.0		
	9395	PEKG	46 C	0657.0	0659.1	23.0	441.00			
	3000	POTS	4 S/F	0657.2	0658.8	43.0	239.0			
	9500	POTS	4 S/F	0657.5	0658.8	39.0	486.0			
	6100	KISV		0657.5	0701		100.0			
	6100	KISV	46 C	0657.5	0659.5	55.0	210.0			
	5200	BERN	47	0657.5	0659.0	10.0	515.0			
	8400	BERN	47	0657.5	0659.0	9.0	770.0			
	3200	BERN	4	0657.5	0659.0	9.0	274.0			
	9100	GORK	46 C	0657.7	0658.7	6.0	670.0			
	9100	GORK		0657.7	0659.1		540.0			
	2950	GORK		0657.8	0659.5		178.0			
	2950	GORK	45 C	0657.8	0658.5	6.3	175.0			
	2950	GORK		0657.8	0703.0		28.0			
	2950	GORK	45 C	0657.8	0700.8		120.0			
	950	GORK	3 S	0658.0	0659.7	5.2	133.0			
	3000	IZMI	5 S	0658.0	0659.0	6.8	257.0	115.0		
	4995	LEAR	4 S/F	0658.0	0658.8	14.5	410			
	19600	BERN	4	0658.0	0659.0	4.00	490.0			
	4995	ATHN	4 S/F	0658.0	0659.1	8.0	240			
	8800	ATHN	47 GB	0658.0	0659.1	7.5	660			
	8800	MANI	47 GB	0658.0	0659.2	4.5	543.5	181.2		
	8800	LEAR	47 GB	0658.1	0658.8	14.4	760			
	2695	ATHN	4 S/F	0658.1	0659.3	7.20	220			
	2695	LEAR	.4 S/F	0658.1	0659.1	14.4	250			
	1415	ATHN	4 S/F	0658.1	0659.8	10.50	240			
	1700	NOBE	46 C	0658.2	0659.0	3.7	556.0			L
	536	ONDR	45 C	0658.2	0658.9	21.0	69.0	16.0		
	15400	LEAR	47 GB	0658.3	0658.8	12.3	650			
	650	GORK	4 S/F	0658.4	0700.0	10.6	47.0			
	1000	TYKW	5 S	0658.5	0700.0	16.5	152.0	40.0		
	500	HIRA	46 C	0658.5	0658.5	14.0	1300.0	50.0		MR

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
10	4995	MANI	4	S/F	0658.5	0659.2	6.5	426.0	142.0		
	2695	MANI	4	S/F	0658.5	0659.3	8.5	220.8	73.6		
	1415	LEAR	4	S/F	0658.6	0659.6	15.5	260			
	506	LEAR	4	S/F	0658.6	0658.6	13.9	310			
	410	LEAR	47	GB	0658.6	0658.8	8.0	1100			
	808	ONDR	4	S/F	0658.8	0700.4	12.0	70.0	43.0		
	606	MANI	3	S	0659.0	0701.0	13.0	84.3	28.1		
	1415	MANI	4	S/F	0659.0	0700.6	10.0	166.1	55.4		
	1700	NOBE	29	PRI	0701.9	0701.9	20.0	36.0			0
	6100	KISV	29	PRI	0702.0	0702	40.0	20.0			
	245	LEAR	8	S	0702.1	0703.3	1.4	150			
	950	GORK	29	PRI	0703.0	0703.0	10.4	17.0			
	234	POTS	4	S/F	0703.2	0703.4	3.0	800.0	80.0		
	9400	TYKW	30	PRI	0705.0		85.0	20.0	6.0		
	3750	TYKW	30	PRI	0707.0		85.0	10.0	3.0		
	2000	TYKW	30	PRI	0710.0		80.0	11.0	3.0		
	1000	TYKW	30	PRI	0715.0		75.0	5.0	1.0		
	9395	PEKG	5	S	0744.0	0746	7.4	77.0	10.4		
	6100	KISV	4	S/F	0745.0	0746	3.0	90.0			
	9100	GORK	3	S	0745.2	0745.7	2.5	110.0	55.0		
	808	ONDR	2	S/F	0745.2	0745.4	5.0	20.0	12.0		
	3000	POTS	3	S	0745.3	0745.7	17.0	110.0			
	9500	POTS	3	S	0745.3	0745.8	10.0	87.0			
	2950	GORK	3	S	0745.4	0745.6	4.0	100.0	50.0		
	2000	TYKW	5	S	0745.5	0746.2	4.5	70.0	20.0		
	3750	TYKW	5	S	0745.5	0746.0	4.5	123.0	25.0		
	1470	POTS	3	S	0745.5	0746.3	15.0	43.0			
	1000	TYKW	45	C	0745.5	0745.9	4.5	30.0	12.0		
	9400	TYKW	5	S	0745.5	0745.8	2.5	95.0	29.0		
	3100	CRIM	3	S	0745.5	0746.0	5.0	115.0	38.0		
	3000	IZMI	5	S	0745.5	0746.0	1.5	115.0	83.0		
	11800	BERN	3		0745.5	0745.8	3.0	112.0			
	8400	BERN	3		0745.5	0745.8	3.0	139.0			
	5200	BERN	3		0745.5	0745.8	3.0	181.0			
	3200	BERN	3		0745.5	0745.8	3.0	130.0			
	19600	BERN	4		0745.6	0745.7	2.0	145.0			
	1415	ATHN	4	S/F	0745.6	0746.3	2.50	52			
	8800	ATHN	4	S/F	0745.6	0746.0	2.2	110			
	2695	ATHN	4	S/F	0745.6	0746.0	3.70	96			
	4995	ATHN	4	S/F	0745.6	0746.1	2.9	110			R
	1700	NOBE	7	C	0745.6	0745.9	1.2	97.0			
	2695	MANI	3	S	0746.0	0746.4	2.2	103.5	34.5		
	4995	MANI	3	S	0746.0	0746.3	2.2	150.4	50.1		
	6800	MANI	3	S	0746.0	0746.4	2.0	131.8	43.9		
	1415	MANI	3	S	0746.0	0746.5	3.0	36.3	12.1		
	9400	TYKW	29	PRI	0748.0		7.0	4.0	2.0		
	2000	TYKW	29	PRI	0750.0		5.0	2.0	1.0		
	3750	TYKW	29	PRI	0750.0		5.0	2.0	1.0		
	810	KRAK	1	S	0845.5	0846.5	2.2	8.0	4.0		
	33	UPIC	42	SER	0914.3	1128.8	134.7				
	9500	POTS	4	S/F	1209.0	1209.5	2.7	22.0			
	3000	POTS	1	S	1209.0	1209.5	1.0	4.6			0
	7000	SAOP	3	S	1209.0	1209.5	.7	23.0	11.0		0
	9400	HUAN	8	S	1209.1	1209.4	.9	24.4	7.3		
	1470	POTS	1	S	1209.3	1209.5	.7	1.3			
	7000	SAOP	29	PRI	1209.7	1209.7	3.6	7.0	3.0		
	2800	OTTA	240	R	1216.0	1222	6.0	2.2	1.1		
	2800	OTTA	20	GRF	1240.0	1242	20.0	6.0	2.0		
	1470	POTS	1	S	1323.5	1324.0	1.0	1.9			
	2800	OTTA	22	GRF	1435.0	1620	145.0	6.0	2.8		
	2800	OTTA	20	GRF	1802.0	1812	160.0	6.0	4.2		
	2800	OTTA	20	GRF	2226.0	2228	25.0	2.8	1.2		
	3750	TYKW	5	S	2227.0	2228.0	2.0	4.0	2.0		
	3750	TYKW	30	PRI	2229.0		10.0	2.0	1.0		
	3750	TYKW	5	S	2232.0	2232.4	1.0	3.0	1.0		
	2000	TYKW	5	S	2232.0	2232.5	2.0	2.0	.7		
	9400	TYKW	5	S	2244.0	2244.5	1.5	9.0	2.5		
	1000	TYKW	5	S	2244.3	2244.4	.7	15.0	4.0		
	3750	TYKW	20	GRF	2310.0	2335	70.0	3.0	1.5		
11	33	UPIC	43	NS	0549.3	0812.4	607.00				
	260	ONDR	44	NS	0606.0E		484.00	50.0	4.0		
	245	LEAR	43	NS	0704.5	0707.0	165.50	11			
	200	GORK	43	NS	0800.0		240.00		10.0		WR
	200	HIRA	43	NS	2037.0	2203	243.0	10.0	5.0		
	208	VORO	44	NS	2200.0E		95.00		8.0		
	245	LEAR	43	NS	2308.0	2308.5	562.00	80			
	3750	TYKW	20	GRF	0035.0	0044	35.0	6.0	2.0		
	9400	TYKW	20	GRF	0040.0	0044	30.0	8.0	3.0		
	8800	LEAR	4	S/F	0043.6	0043.8	2.5	13			R
	5730	IRKU			0142.0	0147.1		380.0			L
	5730	IRKU	47	GB	0142.0	0145.3	6.0	1620.0			
	2840	PEKG	47	GB	0143.0	0145.5	32.0	822.0			
	9395	PEKG	47	GB	0143.0	0145.8	32.0	1182.0			
	9400	TYKW	47	GB	0143.0	0145.3	8.0	1310.0	240.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
11	3750	TYKW	45 C	0143.5	0145.4	9.5	385.0	95.0		
	8800	LEAR	47 GR	0143.6	0145.3	18.0	1399			
	15400	LEAR	47 GR	0143.8	0145.1	17.8	2000			
	4995	LEAR	4 S/F	0143.8	0145.3	17.8	470			
	2695	LEAR	47 GR	0143.8	0145.3	17.8	630			
	2000	TYKW	47 GR	0143.8	0145.6	11.2	525.0	90.0		
	1700	NORE	47 GR	0143.9	0145.3	4.1	1730.0			L
	4995	MANI	47 GR	0144.0	0145.6	8.5	538.7	179.6		
	2695	PENT	47 GR	0144.0	0145.5	8.0	725.0	145.0		
	8800	MANI	47 GR	0144.0	0145.6	8.0	1314.9	438.3		
	2695	MANI	47 GR	0144.2	0145.8	10.8	550.5	183.5		
	500	HIRA	46 C	0144.2	0145.9	16.0	300.0	50.0		SR
	606	LEAR	47 GR	0144.3	0154.5	17.3	320			
	410	LEAR	47 GR	0144.3	0144.5	10.2	800			
	1415	LEAR	4 S/F	0144.3	0145.5	17.3	300			
	1000	TYKW	45 C	0144.4	0146.6	15.6	215.0	60.0		
	606	MANI	4 S/F	0144.6	0147.5	13.9	104.0	34.7		
	1415	MANI	4 S/F	0144.6	0146.5	13.4	228.0	76.0		
	245	LEAR	8 S	0145.1	0145.1	1.2	34			
	1700	NORE	29 PRI	0148.0	0148.0	40.0	37.0			0
	9400	TYKW	29 PRI	0151.0		30.0	28.0	10.0		
	2695	PENT	29 PRI	0152.0	0152	6.00	20.0			
	3750	TYKW	29 PRI	0153.0		30.0	15.0	5.0		
	2000	TYKW	30 PRI	0155.0		105.0	12.0	3.0		
	1000	TYKW	29 PRI	0200.0		100.0	9.0	2.0		
	245	LEAR	8 S	0204.3	0204.5	.3	90			
	8800	PALE	8 S	0206.5	0208.0	.15	23			
	3750	TYKW	21 GRF	0230.0	0246	70.0	5.0	2.0		
	9400	TYKW	20 GRF	0230.0	0255	70.0	4.0	2.0		
	2000	TYKW	20 GRF	0235.0	0253	55.0	1.5	.5		
	3750	TYKW	5 S	0250.0	0252	5.0	2.0	1.0		
	410	LEAR	8 S	0429.0	0429.1	.1	24			
	3750	TYKW	28 PRE	0438.0	0738	180.0	20.0	10.0		
	9400	TYKW	28 PRE	0438.0	0741	183.0	25.0	10.0		
	2000	TYKW	28 PRE	0440.0	0738	178.0	12.0	6.0		
	1700	NORE	1 S	0447.8	0448.0	1.0	22.0			Q
	2950	GORK	21 GRF	0453.8	0757.8	426.0E	32.0			
	3750	TYKW	5 S	0454.0	0454.3	1.0	9.0	2.0		
	1000	TYKW	28 PRE	0500.0	0740	160.0	6.0	2.5		
	9100	GORK	21 GRF	0510.0	0757.7	410.0E	80.0			
	2840	PEKG	20 GRF	0636.0	0646	22.0	3.0	0.8		
	6100	KISV		0712.0	0756.4		56.0			
	6100	KISV		0712.0	0743.8		43.0			
	6100	KISV	28 PRE	0712.0	0738	26.0	6.0			
	3000	POTS	28 PRE	0712.6	0749.0	99.0	134.0			
	1470	POTS	28 PRE	0713.5	0749.5	94.0	65.0			
	9395	PEKG	46 C	0714.0	0748.7	80.0	1182.0	57.0		
	2840	PEKG	28 PRE	0714.0	0733.5	19.5	9.0	5.2		
	9500	POTS	28 PRE	0716.5	0748.6	94.0	82.0			
	3100	CRIM	28 PRE	0718.0	0740.8	22.8	14.0	5.0		
	9395	PEKG	28 PRE	0721.0	073	18.0	8.0	4.2		
	1700	NORE	24 R	0726.7	0749.5	38.00	53.0			0
	2840	PEKG	46 C	0733.5	0749	24.0	154.0	58.0		
	2840	PEKG	46 C	0733.5	0749	24.0	154.0	58.0		
	5200	BERN	4	0735.0	0748.6	50.0U	152.0			
	3200	BERN	4	0735.0	0749.0	50.0U	130.0			
	11800	BERN	4	0736.0	0748.5	52.0	78.0			
	8400	BERN	4	0737.0	0748.6	52.0	116.0			
	950	GORK	21 GRF	0737.4	0757.6	45.6	4.0	2.0		
	950	GORK		0737.4	0748.9		42.0			
	950	GORK	46 C	0737.4	0743.3	14.0	24.0			
	3750	TYKW	45 C	0738.0	0748.7	42.0	155.0	50.0		
	2000	TYKW	45 C	0738.0	0749.0	42.0	105.0	30.0		
	808	ONDR	41 F	0738.5	0749.2	21.0	30.0	17.0		
	536	ONDR	46 C	0740.0	0758.2	20.0	50.0	12.0		
	1000	TYKW	45 C	0740.0	0749.1	20.0	60.0	20.0		
	3100	CRIM	47 GR	0740.0	0743.6	15.0	75.0			
	3000	IZMI	7 C	0740.0	0748.5	15.0	93.0	40.0		
	3100	CRIM		0740.0	0749.0		152.0	50.0		
	19600	BERN	3	0740.0	0756.6	50.0U	57.0			
	4995	MANI	4 S/F	0740.5	0748.8	18.0	152.9	51.0		
	2695	MANI	4 S/F	0740.5	0749.3	17.5	146.8	48.9		
	9100	GORK	46 C	0740.5	0743.2	17.2	36.0			
	9100	GORK		0740.5	0743.4	2.90	77.0			
	4995	ATHN	4 S/F	0740.6	0748.6	39.2	100			
	2695	ATHN	4 S/F	0740.6	0749.5	43.50	110			
	650	GORK	46 C	0740.7	0743.8	16.3	14.0			
	650	GORK		0740.7	0746.8		13.0			
	650	GORK		0740.7	0748.8		37.0			
	810	KRAK	7 C	0740.8	0742.9	18.2	17.0	9.0		
	810	KRAK		0740.8	0749.0		39.0			
	9400	TYKW	45 C	0741.0	0748.8	34.0	125.0	50.0		
	8800	MANI	4 S/F	0741.0	0748.8	14.0	136.9	45.6		
	606	MANI	4 S/F	0741.0	0749.0	17.5	49.6	16.5		
	1415	MANI	4 S/F	0741.0	0749.2	18.0	68.1	22.7		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
11	1415	ATHN	4	S/F	0741.1	0749.1	18.00	69			
	100	GORK			0741.4	0743.1		540.0			
	100	GORK	46	C	0741.4	0742.8	15.5	2250.0			
	200	HIRA	46	C	0741.5	0749.2	10.3	74.0	10.0		MR
	204	IZMI	41	F	0741.5	0749.5	9.0	114.0			
	100	HIRA	46	C	0741.6	0743.0	14.0	150.0	15.0		0
	8800	ATHN	4	S/F	0741.8	0749.6	30.5	88			
	500	HIRA	46	C	0742.0	0748.7	13.0	140.0	30.0		SR
	200	GORK			0742.0	0746.5		18.0			
	200	GORK			0742.0	0748.7		34.0			
	200	GORK	46	C	0742.0	0742.9	10.6	10.0			
	430	KRAK			0742.3	0749.0		57.0			
	430	KRAK	7	C	0742.3	0747.0	13.2	15.0	5.0		
	113	POTS	42	SER	0742.8	0751.4	14.0	200.0	1.0E		III
	2950	GORK	46	C	0743.3	0749.1	17.4	47.0			
	2950	GORK			0743.3	0757.8		104.0			
	6100	KISV	46	C	0743.8E	0748.7	22.0	88.0			
	3100	CRIM	29	PBI	0755.0	0755.0	165.0	44.0	14.0		
	3100	CRIM	1	S	0756.5	0757.0	2.5	25.0	8.0		
	2840	PEKG	30	PBI	0758.0		45.00	37.2			
	9395	PEKG	29	PBI	0759.0		44.00	60.0			
	6100	KISV	29	PBI	0800.0	0800	30.0	35.0			
	1000	TYKW	29	PBI	0800.0		60.00	9.0H	7.00		
	3000	POTS	4	S/F	0813.0	0816.2	4.5	9.3			
	1470	POTS	42	SER	0813.2	0816.2	12.0	4.6			
	9400	TYKW	29	PBI	0815.0		45.00	40.0	30.00		
	2840	PEKG	5	S	0815.0	0816.2	4.4	11.0	5.3		
	9395	PEKG	5	S	0815.0	0816.2	4.4	11.0	5.3		
	2840	PEKG	5	S	0815.0	0816.2	4.4	11.0	5.3		
	2950	GORK	1	S	0815.4	0815.9	2.1	8.0	3.5		
	2000	TYKW	29	PRI	0820.0		40.00	19.0	14.00		
	3750	TYKW	29	PRI	0820.0		40.00	27.0	20.00		
	536	ONDR	42	SER	0916.0	0916.6	3.0	21.0			
	100	GORK	8	S	1012.6	1013.0	.9	55.00			
	6100	KISV	4	S/F	1018.7	1019.2	5.0	5.0			III
	113	POTS	4	S/F	1036.4	1036.4	.1	100.0	30.0		
	2800	OTTA	240	R	1200.0	1245	45.0	7.6	3.8		
	3000	POTS	27	RF	1303.0	1449	152.00	28.0			
	9500	POTS	27	RF	1307.0	1455	168.00	35.0			
	7000	SAOP	20	GRF	1307.3		10.2	7.0	3.0		24L
	1470	POTS	27		1310.0	1542	165.00	7.5			
	2800	OTTA	23	GRF	1324.0	1338	18.0	5.4	2.2		
	234	POTS	4	S/F	1324.6	1324.6	3.0	335.0	90.0		
	9400	HUAN	21	GRF	1329.3	1453.9	147.9	35.0	12.7		0
	8800	ATHN	4	S/F	1329.6	1334.8	9.7	40			
	3000	POTS	3	S	1330.0	1334.7	15.0	19.0			
	9500	POTS	3	S	1330.0	1334.5	14.0	27.0			
	2695	ATHN	4	S/F	1330.1	1334.8	12.20	15			
	4995	ATHN	4	S/F	1330.3	1334.8	11.8	19			
	1415	ATHN	4	S/F	1330.5	1334.8	11.60	11			
	3200	BERN	3	S	1331.0	1334.6	3.6	17.0			
	5200	BERN	3	S	1331.0	1334.6	3.6	24.0			
	1470	POTS	1	S	1331.0	1334.7	7.0	4.0			
	9400	HUAN	8	S	1334.1	1334.6	.9	29.4	11.4		0
	7000	SAOP	3	S	1334.4	1334.8	1.0	26.0	14.0		9L
	8400	BERN	8		1334.5	1334.5	3.0	40.0			
	11800	BERN	8		1334.5	1334.5	3.0	38.0			
	245	SGMR	47	GB	1334.6	1334.8	.40	880			
	15400	SGMR	8	S	1334.6	1334.8	.2	13			
	4995	SGMR	8	S	1334.6	1334.6	.70	10			
	8800	SGMR	8	S	1334.6	1334.6	1.20	30			
	410	SGMR	47	GB	1334.6	1334.8	.40	1500			
	2695	SGMR	8	S	1334.6	1334.6	1.20	11			
	234	POTS	4	S/F	1334.6	1334.7	2.0	150.0	35.0		
	2800	OTTA	3	S	1334.7	1334.8	1.0	10.6	3.6		
	11800	BERN	3		1346.0	1356.5	13.0H	41.0			
	9500	POTS	3	S	1355.8	1356.4	9.7	18.0			
	9400	HUAN	1	S	1355.9	1356.3	1.5	11.0	6.6		0
	19600	BERN	3		1356.0	1356.5	3.00	20.0U			
	2695	PENT	1	S	1410.0	1418	9.0	3.4	1.7		
	7000	SAOP	27	RF	1410.3		4.2	7.0	3.0		
	7000	SAOP	27	RF	1410.3		4.2	7.0	3.0		
	7000	SAOP	41	F	1410.3						3
	7000	SAOP	45	C	1429.6	1431.1	4.2	17.0	8.0		19L
	9400	HUAN	1	S	1430.3	1431.0	1.4	7.4	5.5		0
	3200	BERN	21		1438.0	1447.6	56.00	31.0			
	5200	BERN	45		1438.0	1447.5	53.0	52.0			
	8400	BERN	45		1439.0	1440.0	40.0	93.0			
	11800	BERN	21		1439.0	1440.0	40.0	157.0			
	19600	BERN	21		1439.0	1440.0	40.0	228.0			
	35000	BERN	3		1439.0	1440.0	3.0	220.0			
	9500	POTS	3	S	1439.0	1440.0	6.0	90.0			
	9400	HUAN	3	S	1439.1	1440.1	2.8	104.9	34.1		R
	7000	SAOP	3	S	1439.3	1440.1	1.4	59.0	29.0		9R
	8800	ATHN	4	S/F	1439.6	1440.1	2.7	82			

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11	2800 OTTA	21 GRF	1440.0	1457	77.0	13.2	6.2		
	2800 OTTA	240AR	1440.0	1550	70.0	5.0			
	4995 ATHN	4 S/F	1440.0	1440.5	2.3	17			
	7000 SAOP	29 PRI	1440.7	1440.7	2.6	23.0	11.0		
	2695 ATHN	4 S/F	1443.8	1447.8	22.30	20			
	4995 ATHN	4 S/F	1444.0	1447.8	27.3	42			
	8800 ATHN	4 S/F	1444.8	1447.8	18.5	28			
	4995 SGMR	4 S/F	1445.3	1447.8	5.30	47			
	1415 ATHN	4 S/F	1445.6	1447.8	22.70	54			
	7000 SAOP	28 FRE	1445.6		1.2	5.0	2.5		
	3000 POTS	4	1446.0	1447.6	4.0	38.0			
	9500 POTS	4 S/F	1446.0	1453.8	30.0	33.0			
	1470 POTS	4 S/F	1446.0	1447.8	5.0	39.0			
	8800 SGMR	4 S/F	1446.0	1447.5	3.00	33			
	2695 SGMR	4 S/F	1446.0	1447.6	2.60	19			
	1415 SGMR	4 S/F	1446.8	1448.0	3.2	52			
	7000 SAOP	3 S	1446.9	1447.5	1.4	38.0	19.0		RL
	2695 PENT	4 S/F	1447.0	1447.9	4.0	14.8	6.0		
	7000 SAOP	29 PRI	1448.3	1453.4	22.6	23.0	11.0		
	5200 BERN	3	1527.0	1538.6	18.0	10.0			
	8400 BERN	3	1534.0	1538.3	8.0	45.0			
	11800 BERN	3	1534.0	1538.3	7.0	80.0			
	9500 POTS	42 SER	1536.6	1543.7	14.0	50.0			
	4995 SGMR	4 S/F	1537.5	1538.8	3.30	06			
	8800 SGMR	4 S/F	1537.6	1538.3	2.90	54			
	9400 HUAN	4 S/F	1537.6	1538.4	2.1	42.3	21.4		R
	15400 SGMR	4 S/F	1538.1	1538.3	3.2	77			
	8800 ATHN	4 S/F	1538.1	1538.6	4.5	48			
	1470 POTS	3 S	1538.6	1538.8	.4	9.2			
	1415 SGMR	R S	1539.0	1539.1	.30	13			
	2800 OTTA	R S	1657.0	1657	.3	4.2			
	2800 OTTA	1 S	1719.2	1719.5	1.5	2.6	1.4		
	2800 OTTA	21 GRF	1725.0	1750	55.0	5.0	1.6		
	2800 OTTA	1 S	1741.2	1741.6	1.0	3.2	1.6		
	2800 OTTA	1 S	1807.0	1808.4	3.0	4.0	1.8		
	2800 OTTA	21 GRF	1835.0	1844	50.0	7.4	3.4		
	2800 OTTA	1 S	1855.5	1856	1.8	4.2	2.1		
	9400 TYKW	20 GRF	2210.0	2230	60.0	12.0	6.0U		RAIN
	2000 TYKW	21 GRF	2215.0	2220	40.0	4.0	2.0		
	3750 TYKW	21 GRF	2215.0	2232	55.0	8.0	3.5		
	2800 OTTA	21 GRF	2215.0	2228	40.0	5.0	2.8		
	3750 TYKW	5 S	2240.0	2241.7	4.0	3.0	1.0		
	2000 TYKW	5 S	2241.0	2241.5	1.5	3.0	1.0		
	3750 TYKW	20 GRF	2330.0	2335	30.0U	4.0	2.0		RAIN
	2000 TYKW	20 GRF	2330.0	2338	50.0U	3.0	1.5		
	2695 PENT	20 GRF	2330.0	2340	50.0	3.4	1.8		
12	33 UPIC	43 NS	0432.4		754.9D				
	260 ONDR	43 NS	0843.5		311.0D	219.0	6.0		
	208 VORO	44 NS	2200.0E		155.0D		7.0		
	2695 PENT	21 GRF	0030.0	0100	80.0D	18.4			
	2000 TYKW	21 GRF	0035.0U	0146	325.0U	12.0	6.0		
	9400 TYKW	21 GRF	0040.0U	0138	320.0U	20.0	8.0U		RAIN
	3750 TYKW	21 GRF	0040.0U	0146	320.0U	17.0	9.0U		
	1000 TYKW	21 GRF	0045.0U	0325	300.0U	3.0	1.5		
	15400 LEAR	R S	0046.3	0046.5	.3	39			
	2000 TYKW	5 S	0056.0U	0100 U	7.0U	2.0U	1.0U		
	8800 LEAR	4 S/F	0058.6	0100.6	8.4	21			
	3750 TYKW	45 C	0059.0U	0059.5U	2.0U	5.0U	2.5U		
	4995 LEAR	4 S/F	0059.1	0100.6	7.9	18			
	2695 LEAR	4 S/F	0059.3	0059.8	7.7	13			
	1700 NORE	20 GRF	0100.3	0118.8	50.0	31.0			0
	15400 LEAR	4 S/F	0101.1	0102.1	5.9	17			
	9395 PEKG	5 S	0118.0	0118.8	3.0D	21.0	6.0		
	1000 TYKW	5 S	0118.0	0119.0	3.0	10.0	3.0		
	606 LEAR	R S	0118.1	0118.5	.7	119			
	4995 MANI	4 S/F	0118.2	0119.0	2.1	44.9	15.0		
	2695 PENT	45 C	0118.3	0119.7	2.0	43.0	21.0		
	1415 LEAR	R S	0118.3	0118.6	1.8	31			
	2695 LEAR	4 S/F	0118.3	0119.5	2.5	43			
	4995 LEAR	R S	0118.3	0118.8	1.7	26			
	3750 TYKW	45 C	0118.3	0118.9	2.5	26.0	8.0		
	9400 TYKW	45 C	0118.3	0118.9	4.0	25.0	9.0		
	2000 TYKW	45 C	0118.3	0119.6	2.5	31.0	10.0		
	1415 MANI	4 S/F	0118.4	0119.0	1.9	19.4	6.5		
	2695 MANI	4 S/F	0118.4	0119.0	1.9	40.4	13.4		
	15400 LEAR	R S	0118.6	0118.8	1.5	11			
	8800 LEAR	R S	0118.6	0118.8	1.0	25			
	606 MANI	4 S/F	0118.7	0119.0	2.3	33.7	11.2		
	1000 TYKW	29 PRI	0121.0		8.0	1.0	.5		
	9400 TYKW	45 C	0124.5	0125.8	8.0	11.0	4.0		
	15400 LEAR	R S	0125.6	0125.8	.2	17			
	606 LEAR	47 GR	0132.8	0135.1	3.0	22			
	1000 TYKW	5 S	0140.4	0140.6	.6	7.0	2.5		
	2840 PEKG	5 S	0218.0	0220.6	4.0	12.0	4.2		

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12	3750	TYKW	45	C	0219.0	0219.8	19.0	13.0	5.5		
	9400	TYKW	28	PRE	0219.0	0220.3	11.0	6.0	3.5		
	2000	TYKW	5	S	0219.0	0220	2.0	2.0	1.0		
	3750	TYKW			0219.0	0232.4		12.0			
	4995	LEAR	8	S	0219.6	0219.8	1.2	11			
	2695	LEAR	8	S	0220.3	0220.5	.5	10			
	8800	LEAR	8	S	0220.3	0220.5	.5	09			
	2000	TYKW	45	C	0222.0	0236.2	16.0	6.0	2.5		
	2840	PEKG	41	F	0222.0	0232.4	22.0	9.1	3.0		
	606	LEAR	8	S	0226.3	0227.0	.8	59			
	9395	PEKG	45	C	0230.0	0232.2	14.0	18.2	10.1		
	9400	TYKW	45	C	0230.0	0232.3	8.0	31.0	17.0		
	3750	TYKW	30	PRI	0238.0		95.0	8.0	4.5		
	9400	TYKW	30	PRI	0238.0		90.0	15.0	6.0		
	2000	TYKW	29	PBI	0238.0		95.0	3.0	2.0		
	606	LEAR	8	S	0238.8	0238.8	.7	32			
	606	LEAR	8	S	0243.3	0243.6	.3	94			
	1000	TYKW	5	S	0243.5	0243.6	.5	15.0	3.5		
	650	GORK			0336.0	0338.5		12.0			
	650	GORK	46	C	0336.0	0337.7	3.5	8.0			
	606	LEAR	4	S/F	0337.3	0338.5	2.3	25			
	1700	NORE	1	S	0345.2	0345.7	1.0	26.0			0
	9400	TYKW	45	C	0345.3	0346.0	1.7	29.0	14.0		
	9100	GORK	2	S/F	0345.4	0345.9	5.8	30.0			
	3750	TYKW	5	S	0345.5	0346.0	1.5	7.0	3.0		
	3750	TYKW	29	PRI	0347.0		10.0	1.0	.5		
	9400	TYKW	29	PRI	0347.0		10.0	6.0	2.5		
	9400	TYKW	21	GRF	0415.0	0429.5	45.0	7.0	3.0		
	4995	ATHN	8	S	0417.1	0417.8	1.9	23			
	9395	PEKG	5	S	0417.4	0418	4.6	38.4	5.0		
	2840	PEKG	45	C	0417.4	0418.2	6.0	30.0	4.0		
	3750	TYKW	45	C	0417.5	0418.0	14.5	23.0	5.5		
	9100	GORK	3	S	0417.5	0418.0	1.1	44.0	22.0		
	9400	TYKW	5	S	0417.5	0417.9	1.5	40.0	12.0		
	1000	TYKW	5	S	0417.5	0417.7	2.5	6.0	1.0		
	2000	TYKW	5	S	0417.5	0418.0	2.5	15.0	6.0		
	950	GORK	4	S/F	0417.5	0417.8	.7	45.0			
	1415	ATHN	8	S	0417.5	0417.8	.60	05			
	2695	ATHN	8	S	0417.5	0417.8	1.60	18			
	1415	LEAR	8	S	0417.5	0417.8	1.3	06			
	8800	ATHN	8	S	0417.5	0417.8	1.1	42			
	8800	LEAR	8	S	0417.6	0417.8	.9	48			
	15400	LEAR	8	S	0417.6	0417.8	.9	17			
	2695	LEAR	8	S	0417.6	0417.8	1.2	22			
	4995	LEAR	8	S	0417.6	0417.8	1.0	24			
	650	GORK			0417.6	0417.8	.3	14.0	7.0		
	2950	GORK	3	S	0417.6	0418.0	1.1	24.0	12.0		
	5730	IRKU	1	S	0417.6	0417.9	2.0	24.0			R
	1700	NORE	1	S	0417.6	0417.9	.7	21.0			0
	9100	GORK	29	PBI	0418.6	0418.6	19.4	10.0			
	2950	GORK	29	PBI	0418.9	0425.2	14.2	5.0			
	2000	TYKW	29	PRI	0420.0		80.0	3.0	1.5		
	3750	TYKW	30	PBI	0432.0		80.0	4.0	2.0		
	3750	TYKW	20	GRF	0503.0	0525	40.0	3.0	1.5		
	9400	TYKW	20	GRF	0515.0	0539.5	45.0	8.0	3.0		
	9100	GORK	21	GRF	0617.7	0636.6	38.0	30.0			
	3750	TYKW	28	PRE	0619.0	0623.9	5.5	5.0	1.5		
	9400	TYKW	47	GB	0623.5	0625.9	11.5	1050.0	165.0		
	9100	GORK	46	C	0623.6	0625.3	12.4	550.0			
	9100	GORK			0623.6	0626.0		1160.0			
	1700	NORE	47	GB	0623.6	0625.8	11.0	1520.0			R-0
	6100	KISV	47	GB	0623.6	0626.3	7.0	600.00			
	8400	BERN	47		0623.6	0625.7	14.0	1041.0			
	11800	BERN	47		0623.6	0625.7	10.0	1215.0			
	3200	BERN	47	GB	0623.6	0626.0	26.0	776.0			
	19600	BERN	47		0623.6	0625.7	9.0	1501.0			
	5200	BERN	47		0623.6	0626.0	15.0	1131.0			
	9395	PEKG	47	GB	0623.8	0626	2.5	105.0			
	2950	GORK	21	GRF	0623.8	0635.0	35.8	25.0			
	2000	TYKW	45	C	0624.5	0626.2	15.5	485.0	85.0		
	3750	TYKW	47	GB	0624.5	0626.1	12.5	895.0	140.0		
	4995	MANI	47	GB	0624.8	0626.0	11.2	1145.8	381.9		
	8800	MANI	47	GB	0624.8	0626.0	6.2	503.8	167.9		
	2950	GORK	46	C	0624.9	0627.8	9.8	169.0			
	2950	GORK			0624.9	0628.9		132.0			
	950	GORK	4	S/F	0625.0	0626.0	8.0	120.0			
	1000	TYKW	45	C	0625.0	0626.0	15.0	145.0	20.0		
	2840	PEKG	46	C	0625.0	0627	28.0	224.00			
	3000	IZMI	4	S/F	0625.0		13.5	148.00	148.0		
	35000	BERN	47		0625.0	0625.7	2.0	1382.0			
	2695	MANI	47	GB	0625.0	0626.2	11.0	665.3	221.8		
	1415	MANI	3	S	0625.4	0626.7	12.6	125.8	41.9		
	650	GORK			0625.4	0631.9		30.0			
	650	GORK	40	F	0625.4	0625.6	6.9	29.0			
	606	MANI	40	F	0626.0	0632.3	7.0	142.8	47.6		

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12	950	GORK	29	PRI	0633.0	0633.0	11.2	10.0			
	1700	NORE	29	PRI	0634.0	0634.5	25.0	38.0			0
	9400	TYKW	29	PRI	0635.0		25.0	33.0	12.0		
	9500	POTS	27	RF	0635.7	0636.5	29.00	27.0			
	3000	POTS	27	RF	0635.8	0636.4	26.00	22.0			
	1420	POTS	27	RF	0636.0	0636.1	30.00	7.1			
	3750	TYKW	30	PRI	0637.0		25.0	18.0	8.0		
	2000	TYKW	29	PRI	0640.0		40.0	12.0	4.0		
	1000	TYKW	29	PRI	0640.0		40.0	3.0	1.5		
	1420	POTS	1	S	0640.4	0646.0	6.6	2.6			
	3750	TYKW	5	S	0640.4	0640.7	1.0	3.0	1.0		
	9500	POTS	1	S	0641.7	0642.5	1.8	5.8			
	3000	POTS	1	S	0642.0	0642.3	1.0	5.8			
	3750	TYKW	20	GRF	0720.0	0750	100.00	10.0	6.00		
	9400	TYKW	20	GRF	0720.0	0830	100.00	18.0	11.00		
	2000	TYKW	20	GRF	0725.0	0750	100.00	5.0	2.50		
	9100	GORK	21	GRF	0727.8	1027.3	270.0E	22.0			
	2950	GORK	21	GRF	0729.5	0901.7	270.0E	10.0			
	6100	KISV	4	S/F	0841.0	0841.7	3.0	5.0			
	9100	GORK	1	S	0841.1	0841.5	1.1	7.0	3.5		
	9500	POTS	1	S	1005.5	1006.3	3.5	10.0			
	9100	GORK	1	S	1006.0	1006.3	1.8	13.0	7.5		
	6100	KISV	4	S/F	1006.0	1006.5	4.0	7.0			
	3000	POTS	42	SER	1010.0	1012.3	19.0	9.7			
	3000	POTS			1010.0	1026.7		9.7			
	5200	BERN	3		1011.0	1012.2	2.0	13.0			
	3200	BERN	3		1011.0	1012.2	2.0	11.0			
	2950	GORK	1	S	1011.7	1012.3	1.2	7.0	3.5		
	6100	KISV	8	S	1012.0	1012.5	1.0	6.0			
	2950	GORK	1	S	1025.4	1026.2	1.5	7.0	3.5		
	6100	KISV	21	GRF	1025.5	1026.5	5.0	10.0			
	5200	BERN	3		1025.7	1026.2	3.0	19.0			
	3200	BERN	3		1025.7	1026.2	3.0	11.0			
	9500	POTS	3	S	1045.3	1045.7	2.6	16.0			
	9100	GORK	1	S	1045.4	1045.7	1.0	16.0	8.0		
	6100	KISV	8	S	1045.5	1046	1.5	7.0			
	536	ONDR	42	SER	1147.0	1148.4	20.0	49.0			
	2800	OTTA	260	FAL	1155.0	1240	45.0	-8.2	-4.4		
	808	ONDR	42	SER	1203.5	1204.6	4.0	28.0			
	9500	POTS	1	S	1220.8	1221.3	6.2	7.8			
	7000	SAOP	1	S	1221.0	1221.5	.8	10.0	5.0		24L
	6100	KISV	8	S	1221.0	1221.5	1.0	7.0			
	7000	SAOP	29	PRI	1221.8	1222.3	1.2	5.0	2.0		
	9500	POTS	28	PRE	1300.0	1300.7	26.0	21.0			
	9400	HUAN	2	S/F	1300.1	1300.6	1.5	27.1	14.7		0
	15400	SGMR	8	S	1300.3	1300.6	.5	40			
	8800	SGMR	8	S	1300.6	1300.6	.70	24			
	7000	SAOP	1	S	1300.6	1300.7	1.1	10.0	5.0		16R
	9400	HUAN	29	PRI	1301.6	1301.6	15.5	4.5	4.1		0
	2800	OTTA	240	R	1410.0	1500	50.0	5.4			
	113	POTS	42	SER	1418.5	1418.5	10.0	120.0	1.0E		III
	7000	SAOP	1	S	1520.0	1522.5	3.0	10.0	5.0		16L
	7000	SAOP	29	PRI	1523.0	1523.0	3.6	7.0	3.0		
	2800	OTTA	21	GRF	1615.0	1710	110.0	5.6	2.8		
	2695	PENT	1	S	1700.0	1701.5	6.0	9.8	3.0		
	2800	OTTA	240	R	1830.0	1935	65.0	3.4	1.7		
	9400	HUAN	21	GRF	1909.0	2116.6	205.8	86.2	10.7		L
	9400	HUAN	4	S/F	2002.0	2003.5	2.3	33.2	10.4		L
	2695	PENT	4	S/F	2002.0	2003.5	3.0	22.0	10.0		
	2695	PALE	8	S	2002.6	2003.3	1.0	22			
	2800	OTTA	29	PRI	2005.0	2005	30.0	2.2	1.1		
	2800	OTTA	21	GRF	2055.0	2113	145.0	21.0	7.0		
	8800	PALE	8	S	2059.6	2100.6	1.2	19			
	15400	PALE	8	S	2100.3	2100.6	.3	17			
	8800	PALE	47	GR	2103.5	2105.6	15.8	82			
	2000	TYKW	45	C	2104.0	2108.00	11.0	10.0	6.00		
	3750	TYKW	45	C	2104.0	2105.0	11.0	27.0	12.0		
	15400	PALE	47	GR	2104.1	2105.8	15.2	67			
	4995	PALE	4	S/F	2104.5	2105.0	14.8	38			
	2695	PALE	4	S/F	2104.6	2105.0	14.7	34			
	2800	OTTA	3	S	2104.7	2105	5.0	27.0	13.0		
	9400	HUAN	4	S/F	2104.7	2106.1	2.4	84.0	37.1		0
	1000	TYKW	45	C	2104.8	2105.0	1.5	6.0	1.5		
	1415	PALE	8	S	2104.8	2105.0	.3	13			
	1000	TYKW	21	GRF	2107.0	2145	125.0	3.0	1.5		
	9400	TYKW	45	C	2107.0E	2112.6	13.00	55.0	24.00		
	9400	HUAN	1	S	2107.7	2108.5	1.3	8.8	4.8		0
	9400	HUAN	3	S	2111.2	2112.2	3.8	44.2	14.7		0
	2000	TYKW	29	PRI	2115.0		70.0	7.0	2.5		
	3750	TYKW	30	PRI	2115.0		115.0	11.0	5.0		
	9400	TYKW	29	PRI	2120.0		35.0	14.0	6.0		
	9400	TYKW	28	PRE	2158.0	2159.4	18.0	7.0	3.0		
	9400	TYKW	45	C	2216.0	2218.5	4.0	150.0	28.0		
	8800	MANI	4	S/F	2216.0	2226.7	12.0	210.8	70.3		
	3750	TYKW	5	S	2217.0	2218.6	3.0	20.0	5.0		

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
12	4995 PALE	8 S	2217.3	2218.5	1.5	74			
	8800 PALE	8 S	2217.3	2218.5	1.5	139			
	9400 HUAN	4 S/F	2217.4	2218.4	2.2	172.5	48.6		L
	15400 PALE	8 S	2217.5	2218.3	1.3	94			
	4995 MANI	4 S/F	2217.7	2226.6	12.3	201.0	67.0		L
	1700 NORE	7 C	2217.7	2218.5	2.0	81.0			
	3750 TYKW	29 PRI	2220.0		5.0	2.0	1.0		
	9400 TYKW	30 PRI	2220.0		5.8	12.0	9.0		
	1415 MANI	3 S	2224.4	2226.7	6.6	83.2	27.7		
	2800 OTTA	3 S	2225.7	2226.3	8.0	206.0	35.0		
	606 MANI	47 GR	2225.8	2226.2	.9	675.6	225.2		
	1000 TYKW		2225.8	2227.1		55.0			
	9400 TYKW		2225.8	2226.5		260.0			
	1000 TYKW	45 C	2225.8	2226.1	7.2	75.0	15.0		
	2000 TYKW	45 C	2225.8	2226.6	5.2	167.0	40.0		
	3750 TYKW		2225.8	2226.2		152.0			
	9400 TYKW	45 C	2225.8	2226.2	3.2	260.0	45.0		
	3750 TYKW	45 C	2225.8	2226.5	5.2	210.0	35.0		
	9400 HUAN		2225.8	2226.5		204.5			
	9400 HUAN	4 S/F	2225.8	2226.2	2.4	237.7	62.1		L
	1700 NORE	7 C	2225.9	2226.2	10.0	141.0			L
	2695 MANI	4 S/F	2226.2	2226.7	3.8	164.2	54.7		
	9400 TYKW	30 PRI	2229.0		40.0	10.0	4.0		
	3750 TYKW	29 PRI	2231.0		10.0	5.0	2.0		
	2000 TYKW	29 PRI	2231.0		40.0	4.0	1.5		
	1000 TYKW	29 PRI	2233.0		20.0	2.0	1.0		
	9400 TYKW	5 S	2234.5	2235.2	2.5	7.0	2.5		
	9400 TYKW	5 S	2325.0	2325.2	1.0	16.0	7.0		
	3750 TYKW	5 S	2325.0	2325.2	1.0	4.0	2.0		
	9400 TYKW	30 PRI	2326.0		25.0	4.0	2.0		
	3750 TYKW	29 PRI	2326.0		11.0	2.0	1.0		
	3750 TYKW	5 S	2344.0	2345.3	6.0	5.0	1.5		
	2000 TYKW	5 S	2344.0	2345.3	4.0	3.0U	1.0U		
	410 PALE	8 S	2344.8	2345.0	.3	67			
	9400 TYKW	5 S	2349.0	2349.4	1.0	3.0	1.0		
	1000 TYKW	45 C	2351.0	2351.5	1.0	2.0	.7		
	9400 TYKW	5 S	2356.2	2356.4	1.0	3.0	1.0		
13	33 UPIC	44 NS	0430.0E	1020	780.0D				
	260 ONDR	44 NS	0632.0E	0740.3	453.0D	50.0			
	2695 LEAR	43 NS	0740.3		.3	11	5.0		
	200 GORK	43 NS	0954.0		105.0				
	245 PALE	43 NS	1642.0	1702.8	63.0D	139			
	2695 PENT	20 GRF	0000.0	0110	120.0D	11.8			
	9400 TYKW	28 PRE	0000.0	0019	29.0	8.0	4.0		
	2000 TYKW	21 GRF	0003.0	0330	430.0	15.0	7.0		
	3750 TYKW	21 GRF	0025.0E	0330	410.0D	28.0	15.0D		
	2000 TYKW	5 S	0029.0	0031	10.0	3.0	1.0		
	9400 TYKW	5 S	0029.0	0031.4	8.0	25.0	14.0		
	3750 TYKW	21 GRF	0029.0	0103	65.0	7.0	3.5		
	3750 TYKW	5 S	0029.5	0030.7	10.0	8.0	3.0		
	1000 TYKW	8 S	0031.0	0031.1	.2	15.0	5.0		
	9400 TYKW	30 PRI	0037.0		60.0	12.0	6.0		
	2000 TYKW	21 GRF	0046.0	0105	95.0	2.0	1.0		
	2000 TYKW	5 S	0119.0	0121.2	5.0	3.0	1.0		
	3750 TYKW	28 PRE	0119.0	0121.5	5.0	4.0	2.0		
	2840 PEKG	41 F	0119.0	0125.2	7.3	8.1	4.0		
	9395 PEKG	5 S	0124.0	0125.2	7.0	34.0	7.1		
	3750 TYKW	5 S	0124.0	0125.1	3.0	23.0	6.0		
	9400 TYKW	5 S	0124.0	0125.1	5.0	37.0	5.0		
	2000 TYKW	5 S	0124.5	0125.1	1.5	2.0	.7		
	5730 IRKU	2 S/F	0124.5	0125.1	1.5	13.0			R
	8800 PALE	8 S	0124.6	0125.0	.9	52			
	4995 PALE	8 S	0124.8	0125.0	.5	38			
	3750 TYKW	29 PRI	0127.0		5.0	1.5	.7		
	3750 TYKW	28 PRE	0156.0	0205	14.0	4.0	2.5		
	2000 TYKW	45 C	0201.0	0203.1	17.0	4.0	1.5		
	9395 PEKG	41 F	0201.0	0210.7	15.0	4.0			
	2840 PEKG	41 F	0201.0	0210.7	17.0	12.0	3.1		
	9400 TYKW	28 PRE	0202.0	0203.7	8.0	5.0	2.0		
	1000 TYKW	5 S	0202.0	0203.2	7.0	1.5	.5		
	9400 TYKW	45 C	0210.0	0210.7	5.0	12.0	7.0		
	3750 TYKW	45 C	0210.0	0210.7	4.0	15.0	7.0		
	1000 TYKW	45 C	0210.0	0210.4	4.0	7.0	2.0		
	3750 TYKW	29 PRI	0214.0		20.0	3.0	1.0		
	9400 TYKW	29 PRI	0215.0		40.0	5.0	2.0		
	9400 TYKW	45 C	0249.0	0251.2U	13.0	105.0	33.0D		
	9395 PEKG	46 C	0249.0	0251.6	10.0	111.0	55.0		
	2840 PEKG	3 S	0249.0	0251.2	13.6	202.0	21.0		
	2695 MANI	4 S/F	0250.3	0251.3	3.2	149.6	49.9		
	4995 MANI	4 S/F	0250.5	0251.2	2.2	169.2	56.4		
	2000 TYKW	45 C	0250.6E	0251.2	4.4D	113.0	25.0D		
	8800 MANI	4 S/F	0250.7	0251.5	8.8	107.5	35.8		
	2695 PALE	47 GR	0250.8	0251.1	2.0	160			
	1415 PALE	47 GR	0250.8	0251.1	1.3	38			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
13	15400	PALE	47	GR	0250.8	0251.8	12.8	220			
	1415	MANI	4	S/F	0250.8	0251.9	1.7	42.5	14.2		
	8800	PALE	47	GR	0250.8	0251.3	12.8	139			
	4995	PALE	47	GR	0250.8	0251.1	8.0	119			
	1700	NORE	7	C	0250.8	0251.8	8.0	202.0			R
	1000	TYKW	45	C	0251.0	0251.8	1.5	23.0	1.5		
	3750	TYKW	45	C	0251.0E	0251.2	9.00	142.0	20.00		
	2000	TYKW	29	PRI	0255.0		6.0	4.0	2.0		
	1700	NORE	29	PRI	0258.8	0259.0	50.0	33.0			O
	9395	PEKG	29	PRI	0259.0		23.00	30.3	4.0		
	9400	TYKW	30	PRI	0302.0		250.0	20.0	10.0		
	410	LEAR	4	S/F	0311.8	0314.3	3.3	53			
	8800	LEAR	4	S/F	0341.8	0342.3	2.3	36			
	4995	LEAR	4	S/F	0341.8	0342.3	2.3	36			
	2695	LEAR	8	S	0341.8	0342.5	1.3	17			
	9400	TYKW	5	S	0342.0	0342.5	1.0	29.0	12.0		
	2950	GORK	1	S	0342.0	0342.5	1.2	14.0	7.0		
	3750	TYKW	5	S	0342.0	0342.5	1.0	20.0	8.0		
	2000	TYKW	5	S	0342.0	0342.5	2.00	3.5	1.00		
	2840	PEKG	5	S	0342.0	0342.5	2.0	17.0	6.3		
	3750	TYKW	29	PRI	0343.0		6.0	1.5	.7		
	9400	TYKW	30	PRI	0343.0		16.0	4.0	2.0		
	9400	TYKW	5	S	0352.0	0352.1	.7	3.0	1.0		
	2000	TYKW	5	S	0357.0	0357.4	1.0	2.0	.7		
	9100	GORK	1	S	0400.5	0400.9	1.5	16.0	8.0		
	9400	TYKW	45	C	0400.5	0401.0	5.0	16.0	4.0		
	1700	NORE	1	S	0400.6	0400.9	1.0	66.0			R
	15400	LEAR	8	S	0400.6	0400.8	.5	57			
	15400	PALE	8	S	0400.6	0400.8	.5	52			
	8800	LEAR	8	S	0400.8	0400.8	.2	19			
	3750	TYKW	5	S	0403.7	0404.2	1.5	3.0	1.0		
	2000	TYKW	20	GRF	0410.0	0420	50.0	3.0	1.5		
	245	LEAR	8	S	0435.0	0435.3	.8	20			
	9400	TYKW	5	S	0505.0	0517.6	25.0	8.0	2.5		
	3750	TYKW	5	S	0510.0	0518	20.0	3.0	1.0		
	410	LEAR	8	S	0520.3	0520.6	.5	42			
	9400	TYKW	20	GRF	0531.0	0541	50.0	4.0	2.0		
	245	LEAR	47	GR	0540.5	0543.1	5.1	13			
	606	LEAR	8	S	0542.8	0543.1	.5	17			
	410	LEAR	47	GR	0542.8	0543.1	3.0	10			
	410	LEAR	8	S	0613.5	0613.6	.3	65			
	5200	BERN	45		0634.0	0638.0	6.0	7.0			
	3200	BERN	45		0634.0	0637.8	6.0	14.0			
	3750	TYKW	5	S	0634.4	0634.8	.8	6.0	1.5		
	3000	PDTS	4	S/F	0637.1	0637.9	3.4	13.0			
	2950	GORK	1	S	0637.5	0638.8	1.5	10.0	5.0		
	1000	TYKW	42	SER	0637.5	0637.7	1.5	36.0	4.0		
	2000	TYKW	5	S	0637.5	0638.0	2.5	9.0	2.5		
	1470	PDTS	1	S	0637.5	0638.0	1.5	1.8			
	2695	LEAR	8	S	0637.5	0638.0	1.3	13			
	4995	LEAR	8	S	0637.5	0637.8	1.5	09			
	3750	TYKW	5	S	0637.6	0638.0	2.0	10.0	3.0		
	930	BORD	41	F	0638.0	0638	.2	24.0	2.0		
	1470	PDTS	1	S	0715.0	0716.0	6.0	3.0			
	3000	PDTS	1	S	0715.0	0716.4	7.5	5.5			
	9500	PDTS	1	S	0715.4	0716.3	1.6	5.8			
	9400	TYKW	5	S	0715.5	0716.1	2.5	5.0	2.0		
	2000	TYKW	5	S	0716.0	0716.5	2.5	3.5	1.5		
	3750	TYKW	5	S	0716.0	0716.3	1.5	3.0	1.0		
	2950	GORK	1	S	0716.1	0716.4	2.0	3.7	1.8		
	9400	TYKW	28	PRE	0730.0	0803	33.0	13.0	5.0		
	19600	BERN	21		0730.0	0804.7	60.00	126.0			
	5200	BERN	21		0733.0	0804.7	50.00	159.0			
	3200	BERN	21		0733.0	0804.8	50.00	64.0			
	3750	TYKW	28	PRE	0733.0	0755.6	30.0	9.0	3.5		
	3100	CRIM	25	R	0736.0	0810.0		20.0			
	2840	PEKG	28	PRE	0751.0		12.0	7.0	3.3		
	2000	TYKW	28	PRE	0751.0	0755	12.0	3.0	1.5		
	536	ONDR	42	SER	0757.0	0758.3	28.0	15.0			
	950	GORK	2	S/F	0800.2	0800.8	5.7	12.0			
	3000	PDTS	28	PRE	0802.0	0804.9	65.0	54.0			
	2840	PEKG	45	C	0802.0	0804.9	5.0	65.2	31.0		
	9395	PEKG	45	C	0802.0	0804.9	5.0	652.0	3.1		
	8800	ATHN	4	S/F	0802.1	0804.6	6.5	250			
	9100	GORK	3	S	0802.6	0804.8	6.3	220.0			
	4995	ATHN	4	S/F	0802.8	0804.6	7.3	110			
	8800	LEAR	4	S/F	0802.8	0804.8	24.7	310			
	8400	BERN	21		0803.0	0804.7	50.00	264.0			
	2695	MANI	3	S	0803.0	0805.0	4.5	62.2	20.7		
	11800	BERN	21		0803.0	0804.7	40.0	217.0			
	4995	MANI	3	S	0803.0	0805.2	6.0	197.4	65.8		
	2950	GORK	3	S	0803.0	0804.8	3.5	48.0	24.0		
	2000	TYKW	45	C	0803.0	0804.9	6.0	35.0	13.0		
	9400	TYKW	5	S	0803.0	0804.9	6.0	260.0	75.0		
	3750	TYKW	45	C	0803.0	0805.0	5.0	89.0	38.0		

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
13	1000	TYKW	45	C	0803.0	0803.4	7.0	11.0	3.0		
	3100	CRIM	3	S	0803.0	0804.9	5.0	58.0	10.0		
	6100	KISV	3	S	0803.0	0805.2	9.0	110.0			
	930	BORO	41	F	0803.0	0804.2	2.2	28.0	2.0		
	4995	LEAR	4	S/F	0803.1	0804.8	23.7	139			
	15400	LEAR	4	S/F	0803.1	0804.8	23.7	190			
	1470	POTS	28	PRE	0803.2	0804.6	34.0	53.0			
	2695	ATHN	4	S/F	0803.3	0804.6	4.80	43			
	2695	LEAR	4	S/F	0803.5	0804.8	23.0	54			
	1415	ATHN	4	S/F	0803.6	0804.6	4.50	27			
	8800	MANI	3	S	0803.7	0805.3	6.3	358.4	119.2		
	606	LEAP	8	S	0804.0	0804.1	.8	170			
	606	MANI	4	S/F	0804.0	0804.6	3.0	64.8	21.6		
	1415	MANI	4	S/F	0804.0	0804.6	3.0	58.9	19.6		
	650	GORK	4	S/F	0804.0	0804.2	.6	30.0			
	1415	LEAR	4	S/F	0804.1	0804.1	4.7	220			
	9500	POTS	28	PRE	0804.2	0804.2	45.0	219.0			
	2950	GORK	29	PRI	0806.5	0806.6	237.0E	16.0	8.0		
	3750	TYKW	29	PRI	0808.0		52.00	21.0	18.00		
	2840	PEKG	29	PRI	0808.0		87.00	20.0			
	9100	GORK	30	PRI	0808.9	0809.0	230.0E	14.0			
	2000	TYKW	29	PRI	0809.0		51.00	8.0	7.00		
	9400	TYKW	30	PRI	0809.0		51.00	32.0	27.00		
	950	GORK	24	R	0809.0	1000.0	242.0	9.0			
	1000	TYKW	30	PRI	0810.0		50.00	3.0	1.50		
	9500	POTS	3	S	0813.5	0814.2	1.5	15.0			
	9400	TYKW	5	S	0814.0	0814.3	2.0	16.0	3.0		
	1470	POTS	1	S	0814.0	0814.4	.8	2.5			
	3000	POTS	1	S	0814.0	0814.6	1.0	2.8			
	1000	TYKW	8	S	0814.2	0814.3	.2	30.0	7.0		
	430	KRAK	8	S	0824.0	0824.3	.5	540.00			
	100	GORK			0824.0	0831.3		85.00			
	100	GORK	41	F	0824.0	0824.5	11.3	85.00			
	100	GORK			0824.0	0835.2		85.00			
	200	GORK	8	S	0824.4	0824.7	.6	50.0			
	113	POTS	42	SER	0824.5	0831.2	11.0	200.0	1.0		III
	204	IZMI	41	F	0824.5	0824.5	7.0	150.0			
	650	GORK	21	GRF	0829.0	1128.0	238.0	4.0			
	650	GORK	4	S/F	0925.5	0925.8	.6	18.0	6.0		
	410	LEAR	8	S	0928.0	0928.1	.3	16			
	536	ONDR	42	SER	0945.6	1002.6	20.0	130.0			
	1415	LEAR	8	S	0947.1	0947.3	.5	15			
	9500	POTS	1	S	0951.8	0953.1	2.2	7.8			
	1470	POTS	4	S/F	1002.3	1002.8	3.7	7.4			
	9500	POTS	1	S	1002.4	1005.5	3.4	9.3			
	930	BORO	46	C	1002.4	1002.8	1.6	30.0	3.0		
	650	GORK	4	S/F	1002.5	1002.7	.8	30.0	8.0		
	3000	POTS	4	S/F	1002.5	1002.7	2.3	9.3			
	950	GORK	2	S/F	1002.5	1002.7	1.4	20.0			
	8400	BERN	41		1038.0	1056.3	30.0	26.0			
	3200	BERN	41		1038.0	1056.3	30.0	7.0			
	5200	BERN	41		1038.0	1056.3	30.0	12.0			
	11800	BERN	41		1040.0	1056.3	30.0	33.0			
	3000	POTS	42	SER	1052.0	1052.4	4.8	10.0			
	9500	POTS	42	SER	1055.0	1057.0	12.0	26.0			
	6100	KISV	4	S/F	1056.0	1056.7	1.0	10.0			
	9100	GORK	1	S	1056.1	1056.3	1.7	29.0			
	8800	SGMR	4	S/F	1059.3	1200.1	62.70	36			
	9100	GORK	1	S	1101.7	1102.4	1.5	20.0	10.0		
	6100	KISV	3	S	1102.0	1102.7	1.5	5.0			
	2800	OTTA	22	GRF	1120.0	1235	225.0	14.6	7.3		
	536	ONDR	8	S	1121.4	1121.4	.2	24.0			
	6100	KISV	4	S/F	1158.0	1200.7	3.2	14.0			
	9500	POTS	28	PRE	1159.0	1200.3	71.0	31.0			
	3000	POTS	27	RF	1159.0	1226.0	56.0	12.0			
	7000	SAOP	3	S	1159.3	1200.3	1.8	28.0	14.0		0
	9400	HUAN	2	S/F	1159.4	1200.2	1.9	28.1	16.0		0
	9100	GORK	3	S	1159.5	1200.3	3.5	30.0			
	4995	SGMR	4	S/F	1159.5	1200.5	3.0	13			
	15400	SGMR	4	S/F	1159.5	1200.1	2.80	43			
	19600	BERN	21		1200.0	1200.1	10.0U	23.0			
	8400	BERN	21		1200.0	1200.2	60.0	28.0			
	3200	BERN	20		1200.0	1225.0	60.0	8.0			
	11800	BERN	21		1200.0	1200.2	60.0	38.0			
	5200	BERN	45		1200.0	1218.5	60.0	14.0			
	7000	SAOP	29	PRI	1201.1	1205.6	51.0	21.0	10.0		
	3200	BERN	21		1331.0	1336.8	9.00	9.0			
	5200	BERN	21		1331.0	1338.0	9.00	27.0			
	808	ONDR	45	C	1334.8	1336.5	5.0	30.0	6.0		
	3000	POTS	28	PRE	1335.0	1337.0	30.0	9.2			
	11800	BERN	4		1335.0	1338.0	6.00	54.0			
	8400	BERN	4		1335.0	1338.0	6.00	55.0			
	4995	SGMR	4	S/F	1335.1	1338.1	4.40	25			
	9500	POTS	28	PRE	1335.2	1338.0	45.0	50.0			
	9400	HUAN	4	S/F	1335.3	1336.7	3.4	40.4	29.8		R

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13	9400	HUAN			1335.3	1337.8		42.1			
	8800	ATHN	4	S/F	1335.3	1338.0	5.0	54			
	4995	ATHN	4	S/F	1335.3	1338.1	6.0	27			
	2695	SGMR	4	S/F	1335.3	1338.0	4.50	07			
	8800	SGMR	4	S/F	1335.3	1338.0	4.00	61			
	15400	SGMR	4	S/F	1335.5	1338.0	3.50	39			
	1470	POTS	27	RF	1335.5	1337.0	20.0	2.5			
	1415	ATHN	4	S/F	1335.6	1336.8	3.90	13			
	2695	ATHN	4	S/F	1335.6	1337.8	4.50	07			
	1415	SGMR	4	S/F	1336.0	1336.6	3.00	09			
	606	SGMR	8	S	1336.0	1337.8	2.0	36			
	930	BORO	41	F	1336.2	1337.9	2.2	94.0	3.0		
	9400	HUAN	29	PBI	1338.7	1338.7	23.4	17.6	12.1		R
	15400	PALE	8	S	1754.3	1754.6	.3	23			
	9400	HUAN	20	GRF	2132.2	2137.6	17.6	14.7	6.1		O
	9400	TYKW	5	S	2134.0	2138.4	20.0	20.0	5.0		
	8800	PALE	8	S	2137.3	2137.6	.7	28			
	15400	PALE	8	S	2137.5	2137.6	.3	29			
	3750	TYKW	5	S	2138.0	2138.4	1.5	3.0	1.0		
	3750	TYKW	21	GRF	2230.0	0040	390.0	29.0	13.0		
	2000	TYKW	21	GRF	2230.0	0040	390.0	18.0	7.0		
	3750	TYKW	45	C	2237.5	2238.0	5.5	12.0	2.0		
	9400	TYKW	5	S	2237.5	2238.0	1.5	13.0	4.0		
	2800	OTTA	1	S	2237.8	2238	1.0	2.6	1.3		
	9400	TYKW	29	PBI	2239.0		25.0	4.0	2.0		
	3750	TYKW	29	PBI	2243.0		10.0	2.0	1.0		
	2695	PENT	240	AR	2310.0	2320	10.0	3.8	1.9		
	3750	TYKW	5	S	2313.0	2315.4	10.0	6.0	2.0		
	2000	TYKW	5	S	2314.0	2315.3	4.0	8.0	3.0		
	2695	PENT	1	S	2314.0	2315.2	4.0	6.2	3.0		
	9400	TYKW	5	S	2315.0	2315.6	4.0	5.0	1.5		
	2000	TYKW	29	PBI	2318.0		10.0	2.0	1.0		
	245	LEAR	8	S	2349.6	2349.8	.5	35			
	245	LEAR	8	S	2356.8	2357.0	.5	35			
14	245	LEAR	43	NS	0026.6	0331.1	564.40	42			
	208	VORO	44	NS	0035.0E		85.00		13.0		
	260	ONDR	44	NS	0617.0E	1043.5	463.00	51.0			
	200	GORK	43	NS	0700.0		300.00		5.0		
	208	VORO	44	NS	2200.0E		240.00		9.0		
	245	LEAR	43	NS	2305.0	0146.1	646.00	90			
	410	LEAR	43	NS	2340.8	2321.1	56.5	25			
	2695	PENT	21	GRF	0020.0	0115	100.00	22.6			
	9400	TYKW	28	PRE	0024.0	0043	43.0	16.0	8.0		
	3750	TYKW	45	C	0027.0	0028.2	3.0	35.0	8.0		
	1000	TYKW	28	PRE	0027.0	0034.7	10.0	10.0	1.5		
	2000	TYKW	45	C	0028.0	0029.5	2.0	3.5	1.0		
	2695	PENT	40	F	0028.0	0038	17.5	34.6			
	606	MANI	40	F	0030.5	0041.8	51.5	27.8	9.3		
	2000	TYKW	45	C	0031.0	0038.1	21.0	109.0	15.0		
	2000	TYKW			0031.0	0048.6		27.0			
	1415	LEAR	47	GR	0032.8	0038.1	26.2	110			
	2695	LEAR	47	GR	0032.8	0037.8	18.3	38			
	606	LEAR	4	S/F	0033.8	0037.6	25.0	23			
	3750	TYKW	28	PRE	0034.0	0043.2	14.0	11.0	6.0		
	1415	MANI	4	S/F	0034.3	0043.0	17.2	202.8	67.6		
	410	LEAR	4	S/F	0034.5	0047.1	13.5	41			
	8800	LEAR	47	GR	0034.8	0048.3	19.5	139			
	4995	LEAR	47	GR	0034.8	0048.3	16.3	67			
	245	LEAR	4	S/F	0035.0	0040.1	13.5	49			
	15400	LEAR	47	GR	0035.0	0048.3	19.6	170			
	1415	PALE	47	GR	0037.0	0038.1	11.3	100			
	1000	TYKW	45	C	0037.0	0042.3	17.0	300.0	40.0		
	2695	PALE	4	S/F	0037.1	0037.8	11.2	33			
	2695	MANI	3	S	0037.5	0048.7	13.2	43.9	14.6		
	410	PALE	47	GR	0038.6	0039.5	9.7	47			
	606	PALE	4	S/F	0040.1	0041.5	8.2	30			
	9400	TYKW	45	C	0047.0	0048.4	16.0	197.0	35.0		
	8800	MANI	3	S	0047.5	0049.0	4.5	204.8	68.3		
	8800	PALE	8	S	0047.8	0048.3	.5	200			
	4995	PALE	8	S	0047.8	0048.3	.5	60			
	2695	PENT	3	S	0048.0	0048.7	3.0	45.0	16.8		
	15400	PALE	8	S	0048.0	0048.3	.3	139			
	4995	MANI	3	S	0048.0	0048.7	3.3	50.4	16.8		
	3750	TYKW	5	S	0048.0	0048.6	3.0	58.0	24.0		
	1700	NORE	7	C	0048.1	0048.5	4.0	188.0			L
	15400	PALE	4	S/F	0048.3	0053.6	9.5	39			
	8800	PALE	4	S/F	0048.3	0048.3	10.0	230			
	2695	PALE	8	S	0048.3	0048.5	1.8	50			
	4995	PALE	4	S/F	0048.3	0048.6	2.3	72			
	1415	PALE	8	S	0048.3	0048.5	1.0	24			
	3750	TYKW	30	PBI	0051.0		44.0	8.0	4.0		
	2000	TYKW	30	PBI	0052.0		40.0	4.0	2.0		
	1000	TYKW	30	PBI	0054.0		210.0	3.0	1.5		
	2000	TYKW	45	C	0055.0	0057.7	30.0	18.0	2.5		

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14	1000	TYKW	45 C	0055.0	0058.0	5.0	64.0	15.0		
	3750	TYKW	45 C	0055.0	0113.7	33.0	8.0	3.5		
	1000	TYKW	45 C	0100.5	0109.3	25.0	29.0	6.0		
	606	LEAR	4 S/F	0102.6	0110.3	11.0	48			
	9400	TYKW	30 PRI	0103.0		70.0U	20.0	11.0U		RAIN
	410	LEAR	4 S/F	0103.1	0109.6	10.9	20			
	245	LEAR	4 S/F	0107.5	0109.8	2.3	13			
	9400	TYKW	5 S	0112.0	0113	4.0	4.0	2.0		
	9395	PEKG	3 S	0112.0	0112.8	2.0	65.4	9.0		
	606	MANI	47 GR	0132.0	0152.0	50.6	585.2	195.1		
	245	LEAR	47 GR	0132.1	0153.3	48.7	160			
	410	LEAR	4 S/F	0133.0	0204.8	47.8	16			
	1000	TYKW	28 PRE	0133.0	0142.3	11.0	20.0	8.0		
	606	LEAR	47 GR	0133.5	0152.3	47.3	990			
	410	PALE	47 GR	0135.1	0139.1	27.4	56			
	1415	LEAR	47 GR	0135.3	0211.1	45.5	03			
	606	PALE	47 GR	0135.6	0151.8	19.0	280			
	1000	TYKW	45 C	0144.0	0146.8	23.0	380.0	60.0		
	1415	MANI	47 GR	0144.5	0149.7	8.7	602.7	200.9		
	1415	PALE	47 GR	0147.6	0147.8	4.2	170			
	1000	TYKW	30 PRI	0207.0		90.0	4.0	1.0		
	1000	TYKW	45 C	0212.0	0214.7	11.0	61.0	13.0		
	3750	TYKW	5 S	0215.0	0216.6	10.0	3.5	1.5		
	9400	TYKW	21 GRF	0225.0U	0330	140.0U	14.0	7.0U		
	3750	TYKW	5 S	0258.0	0300 U	6.0	4.0D	1.0		
	4995	LEAR	4 S/F	0258.1	0300.8	4.5	11			
	8800	LEAR	4 S/F	0258.3	0300.8	4.3	16			
	9400	TYKW	5 S	0300.3	0300.7	2.0	8.0	3.0		
	3750	TYKW	5 S	0313.0	0314.3	10.0	2.5	1.0		
	9400	TYKW	20 GRF	0350.0	0355	30.0	4.0	2.0		
	1000	TYKW	45 C	0423.4	0423.5	.5	21.0	6.0		
	9395	PEKG	45 C	0508.0	0521.2	16.0	25.0	15.0		
	9100	GORK	23 GRF	0509.7	0521.0	380.0E	27.0			
	2000	TYKW	5 S	0512.0	0512.6	4.0	2.0	.7		
	3750	TYKW	5 S	0512.0U	0512.6U	2.0U	1.5U	.5U		
	1000	TYKW	5 S	0512.0	0512.7	4.0	2.0	.5		
	9400	TYKW	5 S	0512.0	0512.6	1.5	6.0	2.0		
	606	LEAR	8 S	0512.0	0512.5	.8	41			
	9400	TYKW	45 C	0518.0	0521.1	5.0	24.0	13.0		
	3750	TYKW	5 S	0518.0	0521.2	6.0	34.0	10.0		
	2000	TYKW	45 C	0518.0	0521.1	5.0	20.0	7.0		
	6100	KISV	21 GRF	0518.5	0524	5.5D	17.0			
	6100	KISV	28 PRE	0518.5	0520	1.5	2.0			
	3100	CRIM	1 S	0519.0	0520.0	4.0	32.0	10.0		
	2840	PEKG	3 S	0519.0	0521.1	12.0	33.4	7.2		
	8800	ATHN	4 S/F	0519.8	0522.8	6.3	68			
	2950	GORK	3 S	0520.2	0521.0	2.7	31.0	15.0		
	2695	ATHN	4 S/F	0520.3	0522.3	4.0D	35			
	4995	ATHN	4 S/F	0520.3	0522.3	5.8	32			
	4995	LEAR	4 S/F	0520.5	0521.0	3.3	30			
	1000	TYKW	45 C	0520.5	0521.2	1.5	14.0	3.0		
	2695	LEAR	4 S/F	0520.6	0521.0	2.7	32			
	8800	LEAR	4 S/F	0520.6	0521.0	3.2	23			
	6100	KISV	29 PRI	0522.0	0528	60.0	7.0			
	2950	GORK	29 PRI	0522.9	0523.0	56.8	6.7	3.0		
	9400	TYKW	29 PRI	0523.0		60.0	16.0	8.0		
	2000	TYKW	29 PRI	0523.0		60.0	5.0	2.0		
	9395	PEKG	29 PRI	0523.0		24.0	17.0			
	3750	TYKW	29 PRI	0524.0		60.0	11.0	6.5		
	9400	TYKW	21 GRF	0630.0	0700	90.0	6.0	3.0		
	3750	TYKW	21 GRF	0630.0	0700	90.0	6.0	2.5		
	536	ONDR	45 C	0635.0	0637.4	3.0	49.0	7.0		
	9395	PEKG	3 S	0635.0	0635.9	9.0	20.2	8.0		
	2840	PEKG	5 S	0635.0	0636	9.0	14.4	3.1		
	606	MANI	4 S/F	0635.0	0637.5	4.0	17.2	5.7		
	4995	MANI	3 S	0635.2	0635.6	1.2	21.5	7.2		
	9100	GORK	1 S	0635.2	0635.8	1.0	20.0	10.0		
	1470	POTS	4 S/F	0635.2	0636.1	4.8	13.0			
	5200	BERN	3 S	0635.3	0637.5	4.0	15.0			
	3200	BERN	3 S	0635.3	0637.5	7.0	14.0			
	8400	BERN	3 S	0635.3	0640.6	20.0	17.0			
	1415	MANI	3 S	0635.4	0635.8	2.6	12.0	4.0		
	2695	MANI	1 S	0635.4	0635.8	1.0	7.0	2.3		
	2000	TYKW	5 S	0635.5	0636.0	3.5	15.0	6.0		
	9500	POTS	3 S	0635.5	0635.8	1.5	14.0			
	9400	TYKW	5 S	0635.5	0635.8	1.0	13.0	6.0		
	650	GORK	4 S/F	0635.5	0635.7	3.1	43.0			
	3000	POTS	4 S/F	0635.5	0635.8	4.3	14.0			
	3750	TYKW	5 S	0635.5	0635.9	2.5	14.0	4.0		
	1000	TYKW	5 S	0635.5	0636.0	5.0	19.0	5.0		
	2950	GORK	1 S	0635.6	0636.0	5.6	14.7	7.0		
	930	BORD	3 S	0635.6	0636	4.4	25.0	4.0		
	410	LEAR	8 S	0635.6	0635.8	.4	73			
	1415	LEAR	4 S/F	0635.6	0635.8	4.2	20			
	606	LEAR	8 S	0635.6	0635.8	.4	16			

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14	2695	LEAR	4 S/F	0635.6	0635.8	2.4	18			
	8800	LEAR	4 S/F	0635.6	0635.8	5.5	26			
	4995	LEAR	4 S/F	0635.6	0635.8	2.4	19			
	950	GORK	3 S	0635.7	0636.0	3.7	12.0			
	9400	TYKW	29 PRI	0636.5		10.0	4.0	2.0		
	3750	TYKW	29 PRI	0638.0		10.0	3.0	1.5		
	2000	TYKW	29 PRI	0639.0		10.0	2.0	1.0		
	1420	POTS	1 S	0832.3	0832.8	4.9	1.9			
	33	UPIC	42 SER	1032.9	1220.9	199.1				
	1420	POTS	1 S	1233.3	1233.7	.7	1.8			
	3000	POTS	1 S	1233.5	1233.7	.7	7.3			
	2800	OTTA	20 GRF	1310.0	1400	105.0	2.2	1.1		
	3200	BERN	3	1531.0	1534.0	5.0	41.0			
	5200	BERN	3	1531.0	1534.0	6.0	82.0			
	8400	BERN	41	1532.0	1534.0	3.0	40.0			
	8800	SGMR	4 S/F	1532.3	1534.1	3.7D	41			
	4995	SGMR	4 S/F	1532.6	1534.1	3.9D	89			
	4995	ATHN	4 S/F	1532.6	1534.1	4.7	130			
	2800	OTTA	3 S	1533.0	1534.1	5.0	25.0	6.6		
	2695	SGMR	4 S/F	1533.3	1534.1	3.2	25			
	9400	HUAM	1 S	1533.3	1534.0	1.4	23.9	13.1		0
	2695	ATHN	4 S/F	1533.6	1534.1	2.9D	20			
	8800	ATHN	8 S	1533.6	1534.1	1.2	30			
	2800	OTTA	31 ARS	1538.0	1610	85.0	-3.4	-1.8		
	8800	SGMR	4 S/F	1547.6	1548.0	2.2	16			
	4995	SGMR	8 S	1547.8	1548.3	1.5D	06			
	930	BORD	41 F	1651.0	1651.2	.3	17.0	2.0		
	2800	OTTA	21 GRF	1820.0	1828	70.0	6.4	3.2		
	2800	OTTA	3 S	1824.8	1825.5	2.2	10.8	5.4		
	3750	TYKW	20 GRF	2148.0	2300	190.0	6.0	3.0		
	9400	TYKW	21 GRF	2148.0	2200	130.0	6.0	3.0		
	2000	TYKW	20 GRF	2220.0	2250 U	90.0	2.0U	1.0U		
	2695	PENT	240 R	2220.0	2250	30.0	5.0	2.5		
	9400	TYKW	21 GRF	2255.0	2305	35.0	3.0	1.5		
	9400	TYKW	45 C	2308.0	2311.4	8.0	19.0	4.0		
	410	LEAR	47 GR	2330.5	2336.3	7.5	21			
	245	LEAR	47 GR	2330.6	2335.5	7.2	69			
15	200	GORK	44 NS	0300.0E		400.0D		5.0		
	33	UPIC	43 NS	0552.6		697.4D				
	260	ONOR	44 NS	0622.0E	1228	471.0D	74.0	5.0		
	410	LEAR	43 NS	0704.6	0710.8	88.4	19			
	245	SGMR	43 NS	0955.0	1232.5	485.0D	160			
	245	PALE	43 NS	1643.0E	2340.1	707.0D	150			
	200	HIRA	44 NS	1955.0E	0612	810.0D	10.0	5.0		0
	208	VORO	44 NS	2200.0E		240.0D		9.0		
	245	LEAR	43 NS	2305.0	0643.3	646.0D	250			
	410	LEAR	43 NS	2320.8	0050.1	148.3	38			
	9400	TYKW	47 GR	0119.5	0120.1U	2.0	14000.0D	3000.0D		
	2000	TYKW	28 PRE	0123.0U	0136	13.0U	3.0	1.5U		
	3750	TYKW	28 PRE	0123.0U	0136	13.0U	11.0U	4.0U		INTERFERENCE
	2840	PEKG	28 PRE	0124.0	0136	12.0	4.8	2.2		
	9395	PEKG	3 S	0125.0	0125.8	5.0	24.0	9.0		
	9395	PEKG	45 C	0135.0	0138	21.0	139.2	22.2		
	4995	MANI	3 S	0135.0	0137.3	4.0	72.9	24.3		
	8800	MANI	3 S	0135.0	0138.1	6.0	155.4	51.8		
	8800	LEAR	4 S/F	0135.5	0137.8	8.5	370			
	9400	TYKW	45 C	0135.5	0138.0	14.5	310.0	55.0		
	8800	PALE	4 S/F	0135.6	0138.0	28.0	410			
	8800	PALE	4 S/F	0135.6	0138.0	28.0	410			
	4995	LEAR	4 S/F	0135.6	0138.0	5.7	97			
	4995	PALE	4 S/F	0135.8	0138.0	17.0	96			
	3750	TYKW	45 C	0136.0	0138.2U	5.0	37.0U	23.0U		
	2000	TYKW	5 S	0136.0	0139	5.0	10.0	6.0U		
	2840	PEKG	45 C	0136.0	0139	27.5	19.0	9.0		
	245	LEAR	4 S/F	0136.3	0136.6	4.8	38			
	15400	LEAR	4 S/F	0136.3	0137.8	4.3	180			
	15400	PALE	4 S/F	0136.6	0138.0	3.2	160			
	2695	LEAR	4 S/F	0136.6	0138.8	4.0	20			
	1700	NORE	7 C	0136.6	0138.0	3.8	123.0			L
	2695	PALE	8 S	0137.8	0138.8	1.2	20			
	1000	TYKW	45 C	0138.5	0138.9	1.5	310.0	50.0		
	1700	NORE	29 PRI	0140.4	0140.4	15.0	11.0			0
	3750	TYKW	29 PRI	0141.0		60.0	13.0	6.5		
	2000	TYKW	29 PRI	0141.0		40.0	4.0U	2.0U		
	2840	PEKG	29 PRI	0142.0		28.0	7.1	3.0		
	9400	TYKW	29 PRI	0150.0		50.0	25.0	8.0		
	410	LEAR	8 S	0221.1	0221.1	.5	30			
	9400	TYKW	5 S	0255.5	0256.6	2.5	10.0	4.0		
	3750	TYKW	5 S	0256.0	0256.7	1.5	3.0	1.0		
	9100	GORK	23 GRF	0313.0	0752.9	335.0	24.0			
	3750	TYKW	21 GRF	0330.0	0410	80.0	4.0	1.5		
	9400	TYKW	21 GRF	0330.0	0415	90.0	4.0	2.0		
	9400	TYKW	5 S	0333.0	0333.3	2.0	5.0	1.5		
	3750	TYKW	5 S	0333.0	0333.2	4.0	3.0	1.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
15	650	GORK	20	GRF	0506.0E	0605.0	123.00	5.0	2.5		
	3750	TYKW	21	GRF	0545.0	0710	180.0	12.0	5.0		
	9400	TYKW	21	GRF	0545.0	0710	165.0	16.0	6.0		
	2000	TYKW	28	PRE	0620.0	0640	20.0	7.0	1.5		
	410	LEAR	47	GR	0621.1	0625.8	20.9	33			
	410	LEAR	8	S	0623.1	0623.3	.5	32			
	410	LEAR	8	S	0625.8	0626.0	.3	33			
	6100	KISV	4	S/F	0638.0	0645.7	10.0	30.0			
	2840	PEKG	45	C	0639.0	0643.8	14.0	46.2	16.1		
	2950	GORK	21	GRF	0639.0	0646.7	73.0	10.0	5.0		
	3750	TYKW	45	C	0639.0	0643.3	19.0	35.0	9.0		
	3000	POTS			0639.8		11.0				
	1470	POTS	4	S/F	0640.0	0643.4	10.0	15.0			
	2000	TYKW	5	S	0640.0	0643.7	8.0	40.0	17.0		
	9400	TYKW	45	C	0640.0	0645.9	20.0	17.0	4.0		
	1000	TYKW	45	C	0640.0	0644	7.0	3.0	1.0		ONLY PAPER REC
	3200	BERN	3		0641.0	0643.5	10.0	37.0			ONLY PAPER REC
	5200	BERN	3		0641.0	0645.5	10.0	34.0			
	2695	MANI	3	S	0641.0	0644.0	6.0	36.6	12.2		
	4995	ATHN	4	S/F	0641.0	0646.0	7.3	21			
	1415	MANI	3	S	0641.0	0643.7	5.5	15.5	5.2		ONLY PAPER REC
	8400	BERN	3		0641.0	0648.3	10.00	32.0			
	2695	LEAR	4	S/F	0641.1	0643.3	5.5	48			
	2695	ATHN	4	S/F	0641.1	0644.3	5.00	43			
	2950	GORK	3	S	0641.1	0643.3	5.5	30.0	15.0		
	4995	MANI	3	S	0641.5	0645.7	5.8	25.8	8.6		
	1415	ATHN	4	S/F	0641.5	0644.1	6.80	19			
	4995	LEAR	4	S/F	0641.6	0645.1	5.0	43			
	1415	LEAR	4	S/F	0642.3	0644.0	2.5	22			
	9395	PEKG	45	C	0643.0	0645.7	6.2	23.0	10.0		
	9500	POTS	4	S/F	0643.7	0645.6	3.8	17.0			
	8800	ATHN	4	S/F	0643.8	0646.3	4.0	34			
	9100	GORK	1	S	0644.0	0645.6	2.6	23.0			
	8800	LEAR	8	S	0644.3	0645.5	1.3	17			
	2000	TYKW	29	PRI	0648.0		120.0	10.0	5.0		
	9500	POTS	1	S	0953.5	0954.1	.9	9.2			
	9500	POTS	25	R	1055.0	1118.1	175.0	40.0			
	810	KRAK	8	S	1056.0	1056.0	.4	39.0			
	1470	POTS	27	RF	1100.0	1145	65.0	6.4			
	6100	KISV	45	C	1100.0	1107.3	12.0	15.0			
	3000	POTS	27	RF	1101.0	1119.3	74.0	18.0			ONLY PAPER REC
	5200	BERN	20		1107.0	1117.5	32.0	35.0			
	2800	OTTA	20	GRF	1115.0	1215	155.0	13.4	8.0		ONLY PAPER REC
	8400	BERN	20		1115.0	1118.0	8.0	38.0			
	6100	KISV	46	C	1115.0	1118.2	9.0	30.0			
	8800	SGMR	4	S/F	1115.5	1117.3	11.8	19			
	8800	ATHN	4	S/F	1115.6	1117.5	13.4	33			
	4995	SGMR	4	S/F	1115.6	1117.3	10.50	29			
	4995	ATHN	4	S/F	1115.6	1118.1	13.5	40			
	2695	SGMR	4	S/F	1116.1	1124.5	10.00	10			
	2800	OTTA	240	R	1420.0	1535	75.0	4.2			
	3750	TYKW	5	S	2200.0	2205	20.0	3.0	1.0		
	3750	TYKW	20	GRF	2309.0	2320	90.0	9.0	5.0		
	9400	TYKW	20	GRF	2309.0	2320	110.0	8.0	4.0		
	2000	TYKW	20	GRF	2309.0	2320	80.0	2.0	1.0		
	2695	PENT	20	GRF	2310.0	2320	80.0	5.6	2.8		
							320.00		10.0		
16	200	GORK	43	NS	0421.0		449.30				
	33	UPIC	43	NS	0446.7	1215.5	360.0	59.0			
	204	IZMI	43	NS	0600.0		457.00	81.0	9.0		
	260	ONDR	44	NS	0635.0E		544.00	730			
	245	SGMR	43	NS	0956.0	1337.5	705.0	380			WR
	245	PALE	43	NS	1650.0	0015.1	810.00	60.0	20.0		WR
	200	HIRA	44	NS	1955.0E	0430	810.00	120.0	25.0		
	100	HIRA	44	NS	1955.0E	0537	240.00		15.0		
	208	VORO	44	NS	2200.0E		1.7	24			
	606	LEAR	8	S	0120.1	0120.6	.3	20			
	606	PALE	8	S	0120.5	0120.6	.2	39			
	15400	PALE	8	S	0324.1	0324.3	.2	16			
	2695	PALE	8	S	0324.1	0324.1	.3	47			
	15400	PALE	8	S	0326.5	0326.6	.2	17			
	2695	PALE	8	S	0328.3	0328.3	.3	23			
	2695	PALE	47	GR	0336.8	0337.0	.3	20			
	4995	PALE	47	GB	0336.8	0337.1	2.2	37			
	15400	PALE	47	GB	0338.6	0338.8	1.2	14.0			
	9100	GORK	2	S/F	0449.9	0450.5	26.5	20.0			
	9100	GORK	23	GRF	0509.3	0515.0	13.0	13.0	3.0		
	9400	TYKW	28	PRE	0514.0	0515.1	13.0	6.0	3.0		
	3750	TYKW	28	PRE	0514.0	0515.2	4.5	13			
	410	LEAR	4	S/F	0518.3	0519.1	8.5	50.0			
	6100	KISV	3	S	0521.5	0522.8	3.0	17.6	5.9		
	2695	MANI	3	S	0526.5	0528.1	4.5	68.6	22.7		
	8800	MANI	3	S	0527.0	0529.1	5.0	49.0	15.0		
	9400	TYKW	45	C	0527.0	0528.7	8.0	39.0	14.0		
	3750	TYKW	5	S	0527.0	0529.2					

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
16	9395	PEKG	2	S/F	0527.4	0528.7	7.6	32.0	8.2		
	2840	PEKG	3	S	0527.4	0529	11.6	19.2	5.0		
	2950	GORK	3	S	0527.5	0528.8	4.4	13.7	6.0		
	9100	GORK	3	S	0527.5	0528.7	3.2	45.0	20.0		
	4995	LEAR	4	S/F	0527.5	0528.8	7.0	69			
	8800	LEAR	4	S/F	0527.6	0528.8	6.9	61			
	4995	MANI	3	S	0527.8	0529.0	4.2	80.6	26.9		
	8400	BERM	3		0528.0	0529.0	4.0	51.0			ONLY PAPER REC
	2000	TYKW	20	GRF	0528.0	0529.5	30.0	2.0	1.0		
	15400	LEAR	4	S/F	0528.5	0528.8	6.0	13			
	2695	LEAR	8	S	0529.1	0529.3	1.7	11			
	9400	TYKW	29	PRI	0532.0		45.0	10.0	5.0		
	3750	TYKW	29	PRI	0535.0		25.0	6.0	3.0		
	9100	GORK	22	GRF	0603.0E	0757.0	216.00	20.0			
	500	HIRA	7	C	0607.7	0608.3	1.3	12.0	6.0		0
	1000	TYKW	5	S	0608.3	0608.8	1.0	5.0	1.0		
	2000	TYKW	20	GRF	0640.0	0800	140.00	4.0	2.00		
	3750	TYKW	20	GRF	0640.0	0800	140.00	5.0	3.00		
	234	POTS	41	F	0715.5	0715.7	1.4	300.0	4.0		
	245	LEAR	8	S	0716.1	0716.5	.5	53			
	410	LEAR	8	S	0716.3	0716.5	.3	13			
	234	POTS	8	S	0757.2	0757.2	.1	175.0	60.0		
	234	POTS	4	S/F	0855.3	0855.5	.4	175.0	35.0		
	234	POTS	42	SER	0926.9	0926.9	1.8	290.0	1.0		III
	234	POTS	4	S/F	1006.7	1007	.6	250.0	40.0		
	234	POTS	4	S/F	1029.3	1029.7	.6	280.0	6.0		
	9500	POTS	1	S	1110.5	1111.0	1.3	6.0			
	113	POTS	42	SER	1137.8	1137.9	4.7	200.0	3.0		III
	234	POTS	4	S/F	1255.5	1255.7	.5	150.0	20.0		
	2800	OTTA	21	GRF	1345.0	1450	305.0	6.2	3.1		
	1470	POTS	1	S	1404.5	1412.5	11.0	5.4			
	930	BORD	41	F	1412.0	1412.7	1.0	25.0	2.0		
	2800	OTTA	1	S	1727.0	1728	3.0	5.8	2.9		
	9400	HUAN	2	S/F	1727.2	1728.4	2.0	19.0	10.0		0
	9400	HUAN	29	PRI	1729.2	1729.2	25.6	6.9	3.9		0
	2800	OTTA	21	GRF	1910.0	1942	90.0	11.3	4.0		
	9400	HUAN	20	GRF	1932.4	1936.7	66.6	17.3	7.6		L
	2800	OTTA	1	S	1935.0	1937	4.0	6.6	3.3		
	8800	PALE	8	S	1936.5	1936.6	.1	26			
	2000	TYKW	5	S	2100.7	2100.8	.7	26.0	9.0		
	9400	TYKW	5	S	2100.7	2100.9	.6	6.0	2.0		
	3750	TYKW	21	GRF	2234.0	2244.5	65.0	8.0	3.5		
	2000	TYKW	45	C	2234.0	2237.3	5.0	7.0	3.0		
	2000	TYKW	21	GRF	2234.0	2244	40.0	3.0	1.5		
	2800	OTTA	21	GRF	2234.0	2250	65.0	6.0	3.0		
	3750	TYKW	45	C	2235.0	2235.4	4.0	5.0	1.5		
	9400	TYKW	20	GRF	2235.0	2244	30.00	7.0	5.00		
	2800	OTTA	1	S	2236.5	2237.2	1.5	4.6	1.8		
	3750	TYKW	20	GRF	2348.0	2355	45.0	3.0	1.5		
	500	HIRA	5	S	2348.8	2350.0	2.5	13.0	4.0		0
	1000	TYKW	45	C	2349.0	2350.6	3.0	8.0	3.0		
	200	HIRA	46	C	2349.3	2349.6	1.4	130.0	63.0		0
17	100	GORK	44	NS	0300.0E		120.00		20.0		
	204	IZMI	43	NS	0600.0		360.0	24.0			
	260	ONDR	44	NS	0600.0E		497.00	44.0	6.0		
	245	SGMR	43	NS	0957.0	1159.1	543.00	99			
	200	HIRA	44	NS	1958.0E	0124	805.00	65.0	20.0		MR
	208	VORO	44	NS	2200.0E		240.00		16.0		
	245	LEAR	43	NS	2303.0	0633.8	649.00	110			
	410	LEAR	43	NS	2303.0	0457.5	649.00	119			
	2000	TYKW	45	C	0016.0	0016.3	1.0	7.0	1.0		
	3750	TYKW	5	S	0046.0	0050	20.0	2.0	1.0		
	3750	TYKW	5	S	0118.0	0124	20.0	3.0	1.0		
	3750	TYKW	21	GRF	0150.0	0205	45.0	3.0	1.5		
	3750	TYKW	5	S	0229.0	0229.4	1.0	2.0	.7		
	9395	PEKG	41	F	0248.0	0251.4	5.0	14.0	3.2		
	2000	TYKW	5	S	0250.0	0251.7	5.0	16.0	5.0		
	1000	TYKW	45	C	0250.0	0252.2	3.50	32.0	4.00		
	3750	TYKW	21	GRF	0250.0	0440	300.0	8.0	4.0		
	9400	TYKW	21	GRF	0250.0	0450	300.0	8.0	4.0		
	2000	TYKW	21	GRF	0250.0	0500	300.0	4.0	2.0		
	3750	TYKW	45	C	0250.5	0251.7	4.0	30.0	8.0		
	2840	PEKG	2	S/F	0250.6	0251.8	8.0	28.5	5.4		
	9400	TYKW	45	C	0251.0	0251.7	4.0	8.0	2.0		
	4995	MANI	3	S	0251.0	0252.0	3.4	32.9	11.0		
	2695	MANI	3	S	0251.0	0252.3	4.0	31.0	10.3		
	1415	MANI	3	S	0251.0	0252.6	3.0	16.0	5.3		
	2695	LEAR	8	S	0251.3	0251.6	.5	21			
	2695	PALE	8	S	0251.3	0251.6	.5	27			
	1415	PALE	8	S	0251.5	0252.1	.8	23			
	4995	LEAR	8	S	0251.6	0251.6	.2	31			
	2695	PALE	8	S	0342.1	0342.3	.4	22			
	1415	PALE	8	S	0342.3	0342.5	.3	13			
	2000	TYKW	45	C	0401.0	0404.1	5.0	4.0	.7		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
17	1000	TYKW	5	S	0402.0	0402.3	.6	11.0	2.5		
	1000	TYKW	45	C	0407.5	0410.1	3.0	6.0	1.5		
	2000	TYKW	45	C	0407.5	0408.1	3.5	11.0	3.5		
	1415	LEAR	4	S/F	0407.8	0408.1	2.5	38			
	3750	TYKW	45	C	0408.0	0410.2	2.5	6.0	1.5		
	2950	GORK	1	S	0409.4	0410.0	1.6	6.4	3.2		
	9100	GORK	22	GRF	0409.5	0636.8	227.3	28.0			
	3750	TYKW	45	C	0443.0	0450.0	9.0	10.0	3.0		
	2000	TYKW	5	S	0448.5	0449.7	3.0	3.0	1.0		
	2840	PEKG	5	S	0449.0	0450.1	3.2	19.0	6.1		
	2950	GORK	1	S	0449.2	0449.7	2.1	6.4	3.2		
	3750	TYKW	29	PRI	0452.0		20.0	4.0	2.0		
	2000	TYKW	5	S	0454.5	0454.7	1.5	1.5	.5		
	3750	TYKW	5	S	0539.0	0539.9	2.0	32.0	10.0		
	9395	PEKG	1	S	0539.0	0539.8	2.0	10.0	4.0		
	2840	PEKG	5	S	0539.2	0539.9	2.0	12.0	10.0		
	2695	LEAR	8	S	0539.3	0539.8	1.7	09			
	4995	LEAR	8	S	0539.5	0539.8	.6	52			
	6100	KISV	8	S	0539.5	0540	1.5	32.0			
	2950	GORK	1	S	0539.5	0539.7	.8	10.0	5.0		
	9400	TYKW	5	S	0539.6	0539.9	.7	16.0	6.0		
	8800	LEAR	8	S	0539.6	0539.8	.2	21			
	3750	TYKW	29	PRI	0541.0		8.0	3.0	1.5		
	2950	GORK	20	GRF	0553.0	0606.0	58.5	3.8	1.9		
	1000	TYKW	8	S	0555.1	0555.2	.2	4.5	1.5		
	3750	TYKW	20	GRF	0610.0	0638.2	60.0	8.0	2.5		
	234	POTS	4	S/F	0650.3	0650.8	.7	175.0	15.0		III
	1470	POTS	1	S	0750.7	0751.1	.6	3.6			
	650	GORK	46	C	0805.5	0811.1	5.60	12.0			
	650	GORK	46	C	0805.5	0812.4		25.0			
	650	GORK	21	GRF	0805.5	0822.0	29.9	5.0			
	650	GORK	40	F	0915.0	0924.0	52.7	5.0			
	650	GORK			0915.0	0929.2		7.0			
	3100	CRIM	1	S	0940.0	0940.5	1.0	16.0	5.0		
	2800	OTTA	20	GRF	1155.0	1205	30.0	4.2	2.1		
	2800	OTTA	20	GRF	1240.0	1420	175.0	6.2	3.0		
	9500	POTS	1	S	1349.1	1350.5	3.4	7.7			
	1470	POTS	1	S	1356.2	1356.5	1.3	3.1			
	606	SGMR	8	S	1413.5	1414.8	1.6	16			
	9500	POTS	1	S	1414.5	1414.8	.8	9.3			
	1470	POTS	1	S	1414.5	1415.0	7.0	3.8			
	2800	OTTA	20	GRF	1750.0	1757	80.0	7.6	3.6		
	2800	OTTA	240	AR	1945.0	2030	45.0	6.0	1.6		
	2695	PENT	4	S/F	2011.0	2011.9	1.2	30.6	7.6		
	2695	PALE	8	S	2011.6	2011.8	.7	26			
	2800	OTTA	20	GRF	2035.0	2055	70.0	3.0	1.8		
	3750	TYKW	20	GRF	2235.0	2245	40.0	3.0	1.5		
	3750	TYKW	45	C	2319.0	2322.0	5.0	18.0	2.0		
18	245	PALE	43	NS	0025.0	0148.5	257.0D	130			
	100	GORK	44	NS	0348.0E		372.0D		10.0		
	200	GORK	44	NS	0348.0E		360.0D		30.0		
	260	ONDR	44	NS	0600.0E		490.0D	131.0	15.0		
	204	IZMI	44	NS	0600.0E		360.0D	35.0			
	536	ONDR	43	NS	0639.0	1115.5		39.0			
	245	PALE	43	NS	1640.0	0327.0	720.0D	330			
	100	HIRA	44	NS	1958.0E	2244	360.0D	250.0	45.0		SR
	200	HIRA	44	NS	1958.0E	0120	805.0D	65.0	25.0		MR
	208	VORO	44	NS	2200.0E	2330 U	240.0D	150.0D	44.0		
	245	LEAR	43	NS	2302.0	2324.8	651.0D	430			
	410	LEAR	43	NS	2302.0E	0016.5	423.0D	42			
	3750	TYKW	21	GRF	0035.0	0050	40.0	3.5	1.5		
	2000	TYKW	21	GRF	0040.0	0050	30.0	2.0	1.0		
	2840	PEKG	5	S	0045.0	0051.8	9.0	45.1	9.2		
	3750	TYKW	5	S	0051.0	0051.8	2.5	8.0	2.0		
	1000	TYKW	45	C	0051.0	0051.6	4.0	6.0	1.5		
	2000	TYKW	45	C	0051.0	0051.8	4.0	12.0	2.0		
	4995	PALE	8	S	0150.0	0150.3	1.1	13			
	9400	TYKW	21	GRF	0155.0	0202	40.0	3.0	1.5		
	2000	TYKW	20	GRF	0155.0	0211	40.0	2.5	1.5		
	3750	TYKW	21	GRF	0155.0	0202.2	35.0	7.0	3.0		
	3750	TYKW	5	S	0209.5	0210.3	1.5	12.0	5.0		
	9400	TYKW	5	S	0209.7	0210.2	4.0	9.0	3.0		
	3750	TYKW	29	PRI	0211.0		12.0	4.0	2.0		
	9400	TYKW	20	GRF	0320.0	0326	30.0	3.0	1.5		
	3750	TYKW	20	GRF	0320.0	0326	50.0	2.0	1.0		
	2000	TYKW	20	GRF	0323.0	0330	60.0	2.0	1.0		
	1000	TYKW			0438.0	0505.6		7.0			
	1000	TYKW	45	C	0438.0	0450.2	40.0	8.0	2.0		
	410	LEAR	4	S/F	0455.1	0459.5	6.0	290			
	606	LEAR	4	S/F	0456.8	0457.5	3.5	110			
	245	LEAR	8	S	0458.6	0458.8	1.4	94			
	3750	TYKW	21	GRF	0502.0	0517	35.0	2.5	1.0		
	2000	TYKW			0505.0	0505.9		12.0			
	9400	TYKW	20	GRF	0505.0	0515	35.0	3.0	1.5		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
18	2000	TYKW	45	C	0505.0	0506.6	4.0	14.0	2.0		
	2950	GORK	1	S	0505.3	0505.7	1.5	19.0			
	3750	TYKW	45	C	0505.3	0505.9	1.5	11.0	2.0		
	3750	TYKW	5	S	0510.0	0510.4	2.0	2.0	.7		
	3750	TYKW	45	C	0640.0	0640.8	10.0	10.0	1.0		
	2000	TYKW	45	C	0640.0	0640.8	5.0	9.0	1.0		
	1000	TYKW	45	C	0640.0	0640.7	3.0	3.0	1.0		
	410	LEAR	47	GB	0640.5	0640.6	.3	71			
	245	LEAR	47	GB	0640.5	0642.0	5.3	170			
	9400	TYKW	5	S	0642.0	0643	10.0	3.0	1.5		
	6100	KISV	8	S	0642.1	0642.3	.1	3.0			
	1000	TYKW	5	S	0700.0	0703	25.0	4.0	2.0		
	2000	TYKW	20	GRF	0700.0	0730	110.0	8.0	4.0		
	3750	TYKW	20	GRF	0700.0	0730	110.0	8.0	4.0		
	9400	TYKW	20	GRF	0700.0	0730	110.00	8.0	4.00		
	1470	POTS	27	RF	0704.5	0750.5	110.0	7.5			
	9500	POTS	27	RF	0706.0	0732.5	104.0	6.2			
	9100	GORK	20	GRF	0712.0	0734.0	48.0	7.0			
	2840	PEKG	41	F	0714.0	0715	10.0	15.0	8.0		
	9395	PEKG	41	F	0714.0	0716.4	16.0				
	9395	PEKG			0714.0	0726	13.0	14.2	5.1		
	9500	POTS	42	SER	0754.3	0754.6	6.7	11.0			
	1470	POTS	42	SER	0754.3	0754.6	7.6	6.7			
	6100	KISV	1	S	0859.0	0859.8	2.0	4.0			
	113	POTS	4	S/F	1107.0	1107.1	.4	100.0	20.0		III
	234	POTS	8	S	1107.2	1107.3	.5	215.0	70.0		III
	430	KRAK	42	SER	1114.8	1115.4	102.0	600.00			
	430	KRAK			1114.8	1118.2		340.0			
	3000	POTS	4	S/F	1115.0	1117.0	3.8	49.0			
	1470	POTS	4	S/F	1115.0	1117.0	6.5	24.0			
	606	SGMR	4	S/F	1115.3	1115.5	4.50	23			
	410	SGMR	4	S/F	1115.3	1117.1	3.50	310			
	930	BORD	41	F	1115.6	1115.6	3.4	18.0	3.0		
	3100	CRIM	1	S	1116.0	1116.6	2.0	56.0	11.0		
	2950	GORK	3	S	1116.0	1116.9	1.6	57.0			
	2800	OTTA	4	S/F	1116.0	1117	2.0	82.0	14.0		
	3200	BERN	4		1116.0	1117.0	2.0	43.0			
	4995	SGMR	8	S	1116.0	1117.0	1.80	27			
	11800	BERN	4		1116.5	1117.0	1.0	38.0			
	4995	ATHN	4	S/F	1116.5	1117.1	2.3	32			
	8800	SGMR	8	S	1116.5	1117.0	1.5	43			
	1415	SGMR	8	S	1116.5	1117.0	1.50	31			
	8800	ATHN	4	S/F	1116.5	1117.0	2.1	53			
	5200	BERN	4		1116.5	1117.0	1.0	31.0			
	8400	BERN	4		1116.5	1117.0	1.0	53.0			
	2695	ATHN	4	S/F	1116.5	1117.1	2.30	74			
	9100	GORK	4	S/F	1116.5	1117.0	1.1	53.0			
	9500	POTS	28	PRE	1116.5	1117.0	6.3	33.0			
	204	IZMI	5	S	1116.5	1117.0	1.0	1150.0	600.0		
	1415	ATHN	8	S	1116.6	1117.1	1.20	27			
	6100	KISV	4	S/F	1116.7	1117.2	3.0	25.0			
	2695	SGMR	8	S	1116.8	1117.0	1.00	71			
	245	SGMR	47	GR	1116.8	1117.1	1.20	1700			
	810	KRAK	1	S	1117.2	1117.2	1.6	9.0	4.0		
	9100	GORK	29	PRI	1117.5	1117.5	43.00	17.0			
	2800	OTTA	1	S	1504.0	1505	2.0	2.0	1.0		
	930	BORD	42	SER	1505.2	1508.6	5.3	59.0	2.0		
	930	BORD	41	F	1741.5	1741.8	1.0	63.0	2.0		
	410	PALE	8	S	1830.5	1830.6	.3	240			
	2000	TYKW	20	GRF	2140.0	2310	270.0	3.0	1.5		
	3750	TYKW	20	GRF	2140.0	2310	270.0	8.0	3.0		
	1000	TYKW	21	GRF	2140.0	2320	180.0	4.0	1.5		
	1000	TYKW	45	C	2355.5	2356.2	1.5	3.0	1.0		
	410	LEAR	8	S	2355.6	2356.0	.7	53			
	245	LEAR	8	S	2355.8	2356.0	.5	200			
19	410	PALE	43	NS	0014.3	0326.3	265.70	51			
	200	GORK	44	NS	0300.0E		540.00		20.0		
	100	GORK	43	NS	0537.8		95.00		5.0		
	204	IZMI	44	NS	0600.0E		360.00	46.0			
	260	ONOR	44	NS	0626.0E	0900.7	456.00	94.0	14.0		
	100	GORK	43	NS	0915.3		170.0E		30.0		
	245	SGMR	43	NS	0959.0	1344.8	541.00	440			SR
	100	HIRA	44	NS	1958.0E	2053	180.00	340.0	55.0		MR
	200	HIRA	44	NS	1958.0E	0713	800.00	310.0	65.0		
	208	VORO	44	NS	2200.0E		240.00		14.0		
	245	LEAR	43	NS	2325.0	0145.3	628.00	240			
	410	LEAR	8	S	0145.8	0146.0	.3	13			
	606	LEAR	8	S	0145.8	0146.0	.3	38			
	9395	PEKG	2	S/F	0213.0	0213.6	2.0	6.3	2.0		
	9395	PEKG	2	S/F	0219.0	0220	3.0	8.1	2.1		
	9395	PEKG	2	S/F	0224.0	0228	5.0	25.0	8.0		
	100	GORK			0315.6	0323.5H		120.00			
	100	GORK	41	F	0315.6	0317.0	13.0	120.00			
	100	GORK			0315.6	0328.3		1940.0			

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
19	1000	TYKW	5 S	0322.7	0323.5	2.0	1.0	.3		
	2000	TYKW	5 S	0323.0	0323.2	.7	2.0	.7		
	1000	TYKW	5 S	0326.4	0326.6	.6	3.0	.7		
	1000	TYKW	45 C	0327.5	0328.3	1.5	6.0	1.0		
	2000	TYKW	45 C	0327.5	0328.3	1.0	8.0	1.5		
	2000	TYKW	45 C	0329.2	0330.4	2.0	21.0	2.0		
	1000	TYKW	45 C	0329.5	0330.4	1.5	8.0	1.0		
	3750	TYKW	5 S	0426.4	0426.7	1.0	5.0	1.5		
	430	KRAK	8 S	0759.8	0800.5	.8	42.0			
	430	KRAK	40 F	0814.0	0816.2	3.5	13.0	2.0		
	245	LEAR	8 S	0815.3	0815.8	1.5	31			
	410	LEAR	8 S	0815.3	0816.0	1.5	15			
	100	GORK	4 S/F	0914.2	0914.9	1.0	195.0			
	113	POTS	4 S/F	1004.4	1004.4	.2	100.0	25.0		III
	430	KRAK	40 F	1105.8	1107.0	82.5	40.0			
	930	BORD	41 F	1203.2	1203.3	.3	50.0	2.0		
	9500	POTS	47 GB	1205.0	1309	186.0	84.0			
	3000	POTS	47 GB	1210.0	1316	185.0	151.0			
	1470	POTS	47 GB	1237.0	1252.5	90.0	1600.0			
	930	BORD	28 PRE	1237.0	1252.5	34.0	1666.0	300.0		
	2800	OTTA	28 PRE	1237.0		9.0	9.2	5.0		
	810	KRAK		1243.3	1313 U		1100.00			
	810	KRAK		1243.3	1257.5		360.0			
	810	KRAK	49 GB	1243.3	1252 U	93.0	250.0	43.00		
	808	ONDR	49 GB	1244.0		79.00	95.00	90.0		
	430	KRAK		1244.7	1330 U		610.00			
	430	KRAK	49 GB	1244.7	1251.9	91.00	310.0	33.00		
	430	KRAK		1244.7	1315 U		610.00			
	430	KRAK		1244.7	1344.0		490.0			
	430	KRAK		1244.7	1303.0		610.00			
	6100	KISV	46 C	1245.0	1308		55.0			
	536	ONDR	49 GB	1245.5		76.00	390.00	201.0		
	1415	ATHN	47 GB	1245.5	1251.6	54.10	7400			
	2800	OTTA	46F C	1246.0	1313	44.0	173.0	72.0		
	1415	SGMR	47 GB	1246.0	1251.8	71.10	8100			
	2695	SGMR	47 GB	1246.0	1256.0	70.50	110			
	4995	SGMR	47 GB	1246.8	1255.8	67.20	57			
	11800	BERN	20	1247.0	1309.5	70.00	63.0			
	8400	BERN	20	1247.0	1309.5	70.00	91.0			
	19600	BERN	20	1247.00	1315.00	70.00	30.00			
	3200	BERN	45	1247.0	1317.5	70.0	75.0			
	5200	BERN	45	1247.0	1309.7	70.0	85.0			
	8800	SGMR	47 GB	1247.8	1256.1	67.70	39			
	228	HARS	47 GB	1248.0	1313.0	158.0	880.0	131.0		
	2695	ATHN	4 S/F	1249.0	1313.1	52.50	150			
	410	SGMR	47 GB	1249.1	1252.0	78.70	160			
	245	SGMR	47 GB	1249.3	1257.0	51.7	340			
	4995	ATHN	4 S/F	1249.3	1309.6	53.2	99			
	260	ONDR	49 GB	1250.0		72.00	202.00	85.0		
	234	POTS	48 C	1250.0	1314	200.00	1200.0			
	9400	HUAN	22 GRF	1250.8	1309.7	94.6	75.8	24.7		L
	8800	ATHN	47 GB	1250.8	1309.8	52.0	89			
	113	POTS	48 C	1255.0	1315	200.00	1900.0			
	15400	SGMR	4 S/F	1304.0	1310.3	50.50	55			
	930	BORD		1311.0	1316 U		3749.00			
	930	BORD		1311.0	1317 U		3749.00			
	930	BORD		1311.0	1326 U		374.90			
	930	BORD		1311.0	1328		9044.0			
	930	BORD	47 GB	1311.0	1322 U	35.0	3749.00	1700.00		
	2800	OTTA	30 PBI	1330.0	1330	230.0	29.0	11.2		
	930	BORD	29 PBI	1345.0	1355	75.0	893.0	90.0		
	234	POTS	4 S/F	1353.8	1354.0	.7	500.0	80.0		III
	113	POTS	4 S/F	1354.4	1355.3	1.2	1300.0	150.0		III
	3000	POTS	4 S/F	1428.5	1430.3	3.2	16.0			
	1470	POTS	4 S/F	1428.5	1430.5	6.5	27.0			
	2695	SGMR	4 S/F	1428.8	1430.8	3.30	21			
	2800	OTTA	4 S/F	1429.0	1430.1	4.0	14.8	4.9		
	1415	SGMR	4 S/F	1429.0	1430.6	3.1	41			
	1470	POTS	3 S	1445.0	1446.9	4.0	8.8			
	113	POTS	4 S/F	1458.2	1458.7	1.7	700.0	100.0		
	1470	POTS	1 S	1513.2	1513.4	.9	3.5			
	2800	OTTA	1 S	1921.0	1922.5	2.5	5.8	2.9		
	2695	PENT	20 GRF	2330.0	0015	100.0	11.0	5.5		
	1000	TYKW	32 ARS	2355.0	0120	395.0	-6.0	-3.0		
	3750	TYKW	45 C	2356.0	0013.2	50.0	13.0	4.0		
20	100	GORK	44 NS	0300.0E		525.00		800.0		
	200	GORK	44 NS	0300.0E		540.00		25.0		
	410	LEAR	43 NS	0316.8	0415.6	234.2	30			
	204	IZMI	44 NS	0600.0E		360.00	79.0			
	260	ONDR	44 NS	0600.0E		483.00	196.00	27.0		
	245	SGMR	43 NS	1000.0	1400.8	540.00	270			
	245	PALE	43 NS	1645.0	1938.0	491.0	100			
	208	VORO	44 NS	2200.0E		240.00		22.0		
	245	LEAR	43 NS	2302.0	2324.8	651.00	430			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
20	245	LEAR	43	NS	2332.0	0647.3	621.00	139			
	100	HIRA	44	NS	2347.0E	0000	310.00	150.0	30.0		WR
	200	HIRA	44	NS	2352.0E	0005	560.00	50.0	15.0		MR
	1000	TYKW	45	C	0005.0	0006.2	2.0	2.0	.5		
	2000	TYKW	5	S	0008.0E	0015	22.00	2.0	1.00		
	4995	LEAR	4	S/F	0011.3	0013.1	2.8	29			
	9400	TYKW	45	C	0012.0	0013.3	25.0	11.0	3.0		
	8800	LEAR	8	S	0012.5	0013.1	.8	20			
	8800	PALE	8	S	0012.6	0013.1	.7	21			
	15400	LEAR	8	S	0015.1	0015.3	.2	13			
	2000	TYKW	31	ARS	0030.0	0110	330.0	-5.0	-3.0		
	9400	TYKW	31	ARS	0037.0	0200	320.0	-12.0	-6.0		
	410	LEAR	4	S/F	0041.1	0046.6	5.7	16			
	3750	TYKW	31	ARS	0046.0	0140	350.0	-8.0	-4.0		
	3750	TYKW	5	S	0057.0	0059	6.0	3.0	1.0		
	9395	PEKG	2	S/F	0130.0	0132	5.0	34.1	7.2		
	1000	TYKW	5	S	0143.0	0143.3	2.0	4.0	1.0		
	1415	PALE	8	S	0205.3	0205.6	2.0	13			
	3750	TYKW	5	S	0225.0	0227	4.0	5.0	2.0		
	2000	TYKW	45	C	0225.0	0230.7	7.0	6.0	1.5		
	2695	LEAR	4	S/F	0225.3	0227.0	6.0	07			
	1415	LEAR	4	S/F	0225.6	0230.6	5.9	11			
	4995	LEAR	4	S/F	0225.8	0226.9	2.3	09			
	606	LEAR	4	S/F	0226.3	0229.6	4.7	38			
	3750	TYKW	29	PRI	0229.0		10.0	2.0	1.0		
	1000	TYKW	45	C	0229.5	0230.7	2.0	15.0	3.5		
	410	PALE	8	S	0328.8	0329.1	.3	22			
	2950	GORK	20	GRF	0356.3	0418.7	480.0E	30.0			
	3750	TYKW	28	PRE	0402.0	0404	10.0	3.0	1.5		
	2000	TYKW	28	PRE	0402.0	0414	12.0	2.0	1.0		
	2840	PEKG	45	C	0409.4	0419	35.6	15.0	4.1		
	3750	TYKW	45	C	0412.0	0418.8	10.0	16.0	7.0		
	2000	TYKW	45	C	0414.0	0418.6	8.0	12.0	4.0		
	9400	TYKW	20	GRF	0414.5	0418	40.0	7.0	3.0		
	9100	GORK	22	GRF	0415.0	0426.6	29.0	11.0			
	9395	PEKG	20	GRF	0415.0	0418	15.0	8.0	4.0		
	100	HIRA	46	C	0415.5	0415.6	1.6	520.0	240.0		WR
	1000	TYKW	5	S	0415.5	0416.2	1.5	2.0	.7		
	3750	TYKW	30	PRI	0422.0		70.0	8.0	3.0		
	2000	TYKW	29	PRI	0422.0		70.0	4.0	1.5		
	3750	TYKW	5	S	0457.0	0457.8	3.0	2.0	.7		
	1000	TYKW	45	C	0558.0	0558.1	1.0	6.0	2.0		
	536	ONOR	41	F	0620.0	1012	270.0	130.0	16.0		
	9500	POTS	42	SER	0955.5	0959.3	4.6	9.2			
	6100	KISV	27	RF	1037.0	1042	15.0	6.0			
	9100	GORK	22	GRF	1038.0	1039.4	75.0E	16.0			
	6100	KISV	4	S/F	1039.0	1039.3	1.0	7.0			
	6100	KISV	1	S	1121.5	1122.2	2.0	4.0			
	9500	POTS	1	S	1224.5	1225.3	2.8	8.9			
	7000	SAOP	1	S	1225.0	1225.3	.4	7.0	3.0		0
	7000	SAOP	29	PRI	1225.4	1225.7	1.7	7.0	3.0		
	2800	OTTA	240	R	1245.0	1330	45.0	4.2	2.1		
	9500	POTS	1	S	1327.4	1328.1	2.0	9.0			
	7000	SAOP	3	S	1327.5	1328.1	1.0	24.0	12.0		0
	7000	SAOP	29	PRI	1328.5	1328.5	3.4	7.0	3.0		
	9500	POTS	1	S	1425.0	1427.5	10.0	9.2			
	2800	OTTA	1	S	1448.0	1453	8.0	3.2	1.6		
	930	BORD	42	SER	1513.6	1524.8	18.4	76.0	2.0		
	245	SGMR	47	GR	1546.1	1546.3	1.0	3600			
	1415	SGMR	8	S	1548.3	1548.6	.7D	69			
	7000	SAOP	1	S	1553.9	1554.6	.8	10.0	5.0		0
	7000	SAOP	29	PRI	1554.7	1554.7	2.2	7.0	3.0		
	7000	SAOP	41	F	1554.7						2
	930	BORD	41	F	1607.5	1607.6	.2	61.0	2.0		
	7000	SAOP	1	S	1619.5	1620.5	2.8	10.0	5.0		20R
	930	BORD	42	SER	1626.2	1627.8	4.5	64.0	2.0		
	7000	SAOP	28	PRE	1629.5	1629.9	3.7	6.0	3.0		
	2800	OTTA	21	GRF	1630.0	1740	220.0	8.2	4.1		
	7000	SAOP	45	C	1633.2	1634.3	8.9	16.0	8.0		16L
	2800	OTTA	1	S	1634.0	1634.3	4.0	8.4	4.0		
	7000	SAOP	29	PRI	1642.1		5.7	6.0	3.0		
	7000	SAOP	45	C	1845.1	1846.7	4.0	29.0	14.0		26L
	9400	HUAN	4	S/F	1845.6	1847.2	4.2	43.9	22.0		L
	2695	SGMR	4	S/F	1845.8	1846.5	6.8	26			
	4995	SGMR	4	S/F	1845.8	1847.6	6.5D	26			
	8800	SGMR	4	S/F	1846.0	1847.5	6.3D	25			
	2800	OTTA	4	S/F	1846.2	1848	3.8	21.2	15.2		
	8800	PALE	8	S	1846.5	1846.6	1.1	33			
	4995	PALE	4	S/F	1846.5	1847.6	2.1	30			
	2695	PALE	8	S	1847.1	1847.8	1.5	33			
	7000	SAOP	29	PBI	1849.1	1849.4	5.2	10.0	5.0		
	9400	HUAN	29	PRI	1849.8	1849.8	22.0	14.0	2.3		0
	2800	OTTA	29	PRI	1850.0	1850	40.0	9.2	4.6		
	2695	PENT	27A	RF	2015.0		265.0	4.6	4.2		
	2695	PENT	24	R	2015.0	2035	20.0	4.6			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
20	2800	OTTA	3	S	2032.8	2033.3	1.5	14.2	9.4		
	2695	PENT	24P	R	2035.0		225.0	4.6			
	2000	TYKW	21	GRF	2140.0	2300	210.0	4.0	2.0		
	3750	TYKW	21	GRF	2140.0	2340	210.0	7.0	4.0		
	410	LEAR	9	S	2349.0	2349.1	.8	45			
	2695	PENT	26	FAL	2420.0	0040	20.0	-4.6	-2.3		
21	100	GORK	44	NS	0255.0E		545.00		10.0		
	200	GORK	44	NS	0300.0E		540.00		20.0		
	410	LEAR	43	NS	0515.6	0536.6	277.40	69			
	260	ONOR	44	NS	0600.0E		487.00	64.0	8.0		
	204	IZMI	44	NS	0940.0E		140.00	180.0			
	536	ONOR	43	NS	1000.0	1306.5	247.00	52.0	4.0		
	430	KRAK	43	NS	1056.3	1157.0	125.00	160.0	3.0		
	245	PALE	43	NS	1647.0	2320.0	688.00	180			
	200	HIRA	44	NS	1959.0E	0249	800.00	15.0	5.0		MR
	208	VORO	44	NS	2200.0E		240.00		12.0		
	3750	TYKW	5	S	0047.0	0047.2	1.0	3.0	1.0		
	2000	TYKW	5	S	0047.0	0047.2	1.0	1.5	.5		
	9395	PEKG	41	F	0100.9	0101.1	3.0	60.1	8.0		
	410	LEAR	8	S	0105.6	0105.8	.4	63			
	410	LEAR	8	S	0159.5	0159.6	.3	40			
	245	LEAR	8	S	0159.5	0159.6	.3	08			
	606	LEAR	8	S	0159.5	0159.6	.3	10			
	3750	TYKW	45	C	0208.0	0213.7	11.0	62.0	12.0		
	9395	PEKG	3	S	0210.0	0213.7	21.0	250.0	16.0		
	9400	TYKW	5	S	0211.0	0213.7	6.0	270.0	40.0		
	4995	MANI	3	S	0211.0	0213.0	5.0	161.8	53.9		
	8800	MANI	3	S	0211.0	0213.0	5.0	348.4	116.1		
	4995	LEAR	4	S/F	0211.1	0213.6	6.2	110			
	2000	TYKW	45	C	0212.0	0213.8	3.0	19.0	4.0		
	4995	PALE	4	S/F	0212.1	0213.6	4.0	110			
	8800	PALE	4	S/F	0212.1	0213.6	6.9	360			
	8800	LEAR	4	S/F	0212.1	0213.6	6.5	330			
	2695	MANI	3	S	0212.6	0213.0	1.4	40.2	13.4		
	2840	PEKG	4	S/F	0213.0	0213.8	11.0	52.1	5.1		
	1700	NORE	3	S	0213.1	0213.7	1.7	98.0			R
	15400	LEAR	4	S/F	0213.1	0213.6	3.0	130			
	15400	PALE	8	S	0213.1	0213.6	1.9	139			
	2695	PALE	8	S	0213.3	0213.6	.8	42			
	2695	LEAR	8	S	0213.3	0213.6	2.0	41			D
	1700	NORE	29	PRI	0214.7	0214.7	13.0	16.0			
	2000	TYKW	30	PRI	0215.0		70.0	3.0	1.5		
	606	MANI	3	S	0216.0	0217.5	2.0	18.2	6.1		
	1000	TYKW	45	C	0216.5	0217.0	1.0	21.0	5.0		
	606	PALE	8	S	0216.6	0216.8	.4	29			
	9400	TYKW	29	PRI	0217.0		17.0	12.0	5.0		
	3750	TYKW	30	PRI	0219.0		65.0	8.0	2.5		
	2000	TYKW	20	GRF	0235.0	0240	45.0	2.0	1.0		
	3750	TYKW	20	GRF	0235.0	0245	45.0	3.0	2.0		
	9400	TYKW	20	GRF	0236.0	0250	45.0	3.0	1.5		
	2000	TYKW	5	S	0359.0	0359.4	1.0	4.0	1.0		
	1000	TYKW	5	S	0359.2	0359.5	.5	30.0	7.0		
	1000	TYKW	45	C	0400.0	0400.7	3.0	7.0	2.5		
	3750	TYKW	45	C	0410.0	0411.4	3.0	8.0	3.0		
	606	LEAR	8	S	0410.5	0410.6	.3	57			
	245	LEAR	8	S	0410.8	0411.1	.7	24			
	2695	LEAR	8	S	0410.8	0411.3	1.5	10			
	2840	PEKG	3	S	0410.8	0411.5	2.2	11.0	3.3		
	9395	PEKG	1	S	0411.0	0412	2.0	304.0			
	2000	TYKW	5	S	0411.0	0411.4	2.0	5.0	1.5		
	2950	GORK	1	S	0411.0	0411.3	1.0	9.2	4.6		
	9400	TYKW	45	C	0411.0	0412.0	2.0	14.0	3.0		
	8800	LEAR	8	S	0411.0	0412.0	1.6	13			
	4995	LEAR	8	S	0411.0	0411.5	2.0	11			
	3750	TYKW	29	PRI	0413.0		7.0	2.0	1.0		
	2000	TYKW	29	PRI	0413.0		7.0	1.5	.7		
	1000	TYKW	45	C	0433.0	0433.5	1.0	21.0	4.0		
	2000	TYKW	21	GRF	0433.0	0450	55.0	3.0	1.5		
	2840	PEKG	5	S	0433.0	0435	12.0	10.0	3.0		
	2000	TYKW	45	C	0433.3	0433.5	.5	21.0	5.0		
	9100	GORK	1	S	0433.9	0434.7	2.0	26.0	13.0		
	3750	TYKW	21	GRF	0434.0	0445	45.0	3.0	1.5		
	3750	TYKW	5	S	0434.0	0434.7	3.0	12.0	3.0		
	9400	TYKW	5	S	0434.0	0434.7	2.5	23.0	4.0		
	9395	PEKG	5	S	0434.0	0434.8	3.0	19.4	6.0		
	950	GORK	3	S	0434.3	0434.9	1.5	11.0			
	1000	TYKW	5	S	0434.3	0434.9	2.0	13.0	4.0		
	606	LEAR	8	S	0434.3	0434.8	.8	41			
	410	LEAR	8	S	0434.3	0434.6	.8	110			
	650	GORK	3	S	0434.4	0435.1	1.1	24.0	8.0		
	2950	GORK	1	S	0434.5	0434.7	1.1	6.6	3.3		
	2000	TYKW	5	S	0434.5	0434.9	1.5	12.0	3.0		
	1000	TYKW	42	SER	0449.0	0450.6	2.0	27.0	1.5		
	3750	TYKW	5	S	0450.0	0450.7	2.0	4.0	1.0		

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
21	2950	GORK	1 S	0450.3	0450.7	9.6	6.5	3.0		
	2000	TYKW	45 C	0450.5	0451.0	3.0	4.0	1.0		
	9100	GORK	46 C	0528.6	0529.6	4.3	48.0			
	9100	GORK		0528.6	0531.2		39.0			
	2000	TYKW	45 C	0529.0	0529.6	3.0	5.0	1.5		
	9400	TYKW	45 C	0529.0	0529.6	4.0	45.0	15.0		
	3750	TYKW	45 C	0529.0	0529.6	4.0	9.0	2.5		
	6100	KISV	45 C	0529.0	0529.7	3.0	16.0			
	6100	KISV		0529.0	0531.3		12.0			
	9395	PEKG	45 C	0529.0	0529.5	5.0	41.0	15.0		
	8800	LEAR	4 S/F	0529.1	0529.6	2.5	52			
	4995	LEAR	8 S	0529.3	0529.5	.2	16			
	15400	LEAR	8 S	0529.3	0529.6	2.0	39			
	1700	NORE		0529.3	0529.7	.8D	45.0			O
	1000	TYKW	5 S	0531.0	0531.4	1.0	2.0	.5		
	606	LEAR	8 S	0531.1	0531.3	.7	87			
	9400	TYKW	21 GRF	0550.0	0620	130.0	5.0	2.0		
	3750	TYKW	21 GRF	0550.0	0615	130.0	4.0	2.0		
	536	ONDR	4 S/F	0604.0	0606.3	3.0	52.0	9.0		
	500	HIRA	46 C	0604.5	0604.7	1.8	250.0	100.0		WL
	9395	PEKG	1 S	0605.4	0607.4	4.6	6.0	3.1		
	9100	GORK	23 GRF	0615.6	0924.0	315.0E	35.0			
	9395	PEKG	21 GRF	0617.0	0625.8	44.0	14.0	5.0		
	6100	KISV	21 GRF	0620.0	0625.7	31.0	20.0			
	9500	POTS	25 R	0620.5	0630.0	36.0				
	9400	TYKW	5 S	0622.5	0622.8	1.5	5.0	2.0		
	606	LEAR	8 S	0622.8	0623.1	.5	22			
	3750	TYKW	5 S	0624.0	0625.7	4.0	33.0	10.0		
	2000	TYKW	5 S	0624.0	0625.9	4.0	28.0	9.0		
	9400	TYKW	20 GRF	0624.0	0626	45.0	8.0	3.0		
	2840	PEKG	2 S/F	0624.0	0625.8	14.0	48.0	12.0		
	1470	POTS	3 S	0624.5	0625.9	2.5	8.8			
	2950	GORK	3 S	0624.7	0625.7	2.0	34.0	17.0		
	3200	BERN	3	0624.8	0625.5	3.0	29.0U			ONLY PAPER REC
	5200	BERN	3	0624.8	0625.5	2.0	21.0U			ONLY PAPER REC
	4995	ATHN	4 S/F	0625.0	0625.6	3.3	23			
	2695	ATHN	4 S/F	0625.0	0625.6	4.8D	40			
	4995	MANI	3 S	0625.0	0625.7	1.2	35.7	11.9		
	2695	MANI	3 S	0625.0	0625.7	3.0	26.0	8.7		
	3000	POTS	4 S/F	0625.0	0625.7	1.6	32.0			
	9500	POTS	1 S	0625.0	0625.6	2.3	9.5			
	2695	LEAR	4 S/F	0625.3	0625.6	2.3	49			
	8800	LEAR	4 S/F	0625.3	0625.6	2.3	19			
	4995	LEAR	4 S/F	0625.3	0625.6	2.3	28			
	3100	CRIM	1 S	0626.0	0627.4	3.0	44.0	11.0		
	2950	GORK	29 PBI	0626.7	0627.0	90.0	9.2			
	3750	TYKW	30 PBI	0628.0		50.0	6.0	3.0		
	2000	TYKW	29 PBI	0628.0		45.0	6.0	2.0		
	3750	TYKW	5 S	0629.0	0630.3	4.0	2.0	.7		
	3100	CRIM	29	0629.0	0629.0	23.0	9.0	3.0		
	9500	POTS	1 S	0646.5	0647.8	2.1	11.0			
	234	POTS	4 S/F	0647.6	0647.9	.6	250.0	25.0		III
	9500	POTS	4 S/F	0720.6	0721.6	3.9	14.0			III
	6100	KISV		0720.6	0721.2		7.0			
	6100	KISV	45 C	0720.6	0722	2.0	10.0			
	9400	TYKW	5 S	0721.0	0721.8	2.0	15.0	4.0		
	8800	LEAR	8 S	0721.6	0721.8	.7	18			
	1470	POTS	1 S	0801.4	0802.0	1.5	7.0			
	1000	TYKW	45 C	0801.5	0801.7	1.0	14.0	2.0		
	8800	LEAR	8 S	0801.5	0801.8	1.5	09			
	4995	LEAR	8 S	0801.5	0801.8	1.3	06			
	1415	LEAR	8 S	0801.6	0801.8	.2	11			
	2695	LEAR	8 S	0801.6	0801.8	.5	08			
	606	LEAR	8 S	0801.6	0801.8	.9	41			
	536	ONDR	49 GR	0810.0		110.0	390.0D	220.0		
	234	POTS	48 C	0815.0	0902	225.0	58000.0			IV
	2950	GORK		0817.2	0838.3		420.0			
	2950	GORK		0817.2	0851.9		285.0			
	2950	GORK	46 C	0817.2	0830.0	52.0	320.0			
	2950	GORK		0817.2	0846.3		298.0			
	2950	GORK		0817.2	0831.4		440.0			
	2950	GORK		0817.2	0843.3		158.0			
	2950	GORK		0817.2	0833.3		320.0			
	1470	POTS	47 GB	0819.5	0851.6	91.0	518.0			
	3000	POTS	47 GB	0820.0	0831.4	120.0	409.0			
	228	HARS	47 GB	0820.0	0900 U	102.0	1500.0D	1000.0D		
	9500	POTS	47 GR	0820.5	0831.2	132.0	468.0			
	2840	PEKG		0822.0	0838.5	65.0	456.0	170.0		
	3100	CRIM	47 GB	0823.0	0828	35.0	329.0D			
	3100	CRIM		0823.0	0835.2		420.0	140.0		
	3100	CRIM		0823.0	0842.9		294.0			
	5200	BERN	46	0823.0	0831.0U	77.0	318.0D			ONLY PAPER REC
	3200	BERN	46	0823.0	0831.0U	74.0	215.0D			ONLY PAPER REC
	950	GORK		0823.8	0847.1		2600.0			
	950	GORK	46 C	0823.8	0838.3	65.2E	2134.0	1.1		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
21	950	GORK		0823.8	0900.0		2500.0			
	113	POTS	48 C	0824.0	0837	149.0	2800.0			IV
	260	ONDR	49 GB	0824.0		81.0	206.00	135.0		
	2695	ATHN	47 GB	0824.0	0838.5	59.60	410			
	6100	KISV	47 GB	0824.5	0831.1	33.0	335.0			
	6100	KISV		0824.5	0833.3		180.0			
	6100	KISV		0824.5	0837.7		170.0			
	6100	KISV		0824.5	0846.3		100.0			
	6100	KISV		0824.5	0843.4		58.0			
	6100	KISV		0824.5	0852		100.0			
	4995	ATHN	47 GB	0824.8	0831.1	65.20	400			
	930	BORD		0825.0	0851		1350.0			
	930	BORD		0825.0	0907.5		1075.0			
	930	BORD	47 GB	0825.0	0832	55.0	1938.0	625.0		
	930	BORD		0825.0	0837.5		1375.0			
	930	BORD		0825.0	0853.5		1500.0			
	930	BORD		0825.0	0903.7		1688.0			
	930	BORD		0825.0	0859.50		2000.0			
	930	BORD		0825.0	0846		175.0			
	1415	ATHN	47 GB	0825.3	0851.3	64.20	820			
	2695	LEAR	47 GB	0825.6	0830.6	13.9	340			
	810	KRAK	49 GB	0825.7		73.00	1000.00			
	430	KRAK	49 GB	0825.7		140.0	590.00	250.00		
	3750	TYKW	47 GB	0826.0	0831.4	52.00	545.0	110.00		
	9400	TYKW	47 GB	0826.0	0831.5	50.00	560.0	90.00		
	2000	TYKW	47 GB	0826.0	0851.0	52.00	500.0	130.00		
	1000	TYKW	47 GB	0826.0	0833.6	44.00	1600.0	450.00		
	200	HIRA	48 C	0826.0	0901.6	50.00	20000.00	2370.00		MR,SUNSET
	204	IZMI	48 C	0826.0	0901.0	74.0	4500.0			
	9395	PEKG	45 C	0826.0	0831	61.0	373.0			
	808	ONDR	49 GB	0826.0		83.0	98.00	73.0		
	1415	LEAR	47 GB	0826.1	0828.6	13.4	240			
	1415	MANI	47 GB	0826.2	0851.6	55.8	921.9	307.3		
	8800	ATHN	47 GB	0826.3	0831.0	57.0	380			
	500	HIRA	48 C	0826.6	0857.9	50.00	15000.00	2500.00		SR,SUNSET
	606	LEAR	47 GB	0826.8	0830.6	12.7	330			
	2695	MANI	4 S/F	0827.0	0838.7	41.0	455.6	151.9		
	3000	IZMI	48 C	0827.0	0831.5	48.5	598.0			
	4995	LEAR	47 GB	0827.1	0830.6	12.4	500			
	245	LEAR	47 GB	0827.3	0829.8	12.2	200			
	410	LEAR	47 GB	0827.3	0830.5	12.2	200			
	606	MANI	47 GB	0827.5	0859.8	62.50	5074.7	1691.6		
	8800	LEAR	47 GB	0827.6	0830.1	11.9	570			
	8800	MANI	47 GB	0828.0	0830.8	47.0	777.2	259.1		
	4995	MANI	47 GB	0828.0	0830.8	45.0	697.3	232.4		
	9100	GORK		0828.0	0851.9		130.0			
	9100	GORK	46 C	0828.0	0831.0	39.0	490.0			
	9100	GORK		0828.0	0846.3		140.0			
	9100	GORK	46 C	0828.0	0838.1		235.0			
	15400	LEAR	47 GB	0828.5	0830.6	11.0	290			
	100	HIRA	48 C	0830.0	0837.3	48.00	20000.0	2000.0		0,SUNSET
	100	HIRA		0830.0	0848.0		9400.0			0
	15400	LEAR	4 S/F	0830.8	0902.0	15.3	300			
	8800	LEAR	47 GB	0831.0	0902.0	15.3	630			
	4995	LEAR	47 GB	0831.0	0902.0	12.6	600			
	4995	LEAR	47 GB	0838.3	0839.5	8.6	300			
	15400	LEAR	47 GB	0838.3	0839.5	8.6	160			
	2695	LEAR	4 S/F	0838.3	0902.0	20.5	480			
	410	LEAR	47 GB	0838.3	0839.5	8.6	500			
	8800	LEAR	47 GB	0838.3	0839.5	8.6	290			
	2695	LEAR	47 GB	0839.5	0843.3	8.6	180			
	1415	LEAR	47 GB	0839.5	0843.0	8.6	200			
	606	LEAR	47 GB	0839.5	0841.0	8.6	580			
	245	LEAR	47 GB	0839.5	0843.5	8.6	3700			
	6100	KISV	29 PBI	0857.0	0857.5	180.0	75.0			
	3100	CRIM	29 PBI	0858.0	0858.0	40.0	114.0	35.0		
	1415	LEAR	47 GB	0901.3	0902.0	18.8	640			
	245	LEAR	47 GB	0901.6	0902.0	51.00	23000			
	410	LEAR	47 GB	0902.0	0903.1	51.00	17000			
	606	LEAR	47 GB	0902.0	0903.3	51.00	10000			
	2950	GORK	29 PBI	0909.0	0909.0	147.0E	50.0			
	930	BORD	PBI	0920.0	0920	22.0	38.0	17.0		
	9500	POTS	25 R	1114.6	1133.6	69.0	7.7			
	9500	POTS	4 S/F	1151.0	1155.0	6.6	22.0			IV
	7000	SAOP	1 S	1152.2	1152.4	.5	10.0	5.0		0
	6100	KISV	8 S	1152.3	1152.4	.5	4.0			
	7000	SAOP	4 S/F	1154.3	1155.1	1.0	26.0	13.0		10R
	6100	KISV	4 S/F	1154.5	1155.1	1.5	14.0			
	7000	SAOP	29 PBI	1155.3	1155.3	.9	12.0	6.0		
	810	KRAK	8 S	1157.0	1157.0	.1	39.0			
	7000	SAOP	1 S	1209.2	1209.5	1.1	10.0	5.0		0
	6100	KISV	1 S	1209.3	1209.6	1.0	5.0			
	9500	POTS	1 S	1209.4	1209.6	.6	12.0			
	1470	POTS	1 S	1209.5	1210.8	1.6	1.7			
	6100	KISV	1 S	1221.5	1222.2	2.0	4.0			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
21	606	SGMR	8	S	1222.3	1222.3	.7	190			
	9500	POTS	4	S/F	1301.5	1305.9	7.0	41.0			
	245	SGMR	8	S	1304.0	1304.1	.30	58			
	606	SGMR	4	S/F	1304.0	1305.3	2.50	119			
	4995	ATHN	4	S/F	1304.0	1306.1	4.5	46			
	3000	POTS	4	S/F	1304.5	1304.8	2.5	11.0			
	1470	POTS	4	S/F	1304.5	1306.0	2.5	15.0			
	1415	ATHN	4	S/F	1304.8	1306.3	3.50	32			
	9400	HUAN	2	S/F	1304.9	1305.8	1.7	30.1	12.7		0
	2800	OTTA	4	S/F	1305.0	1306	2.0	10.8	3.6		
	5200	BERN	2		1305.0	1306.0	2.0	38.00			ONLY PAPER REC
	2695	ATHN	4	S/F	1305.1	1306.3	2.70	13			
	4995	SGMR	8	S	1305.1	1306.0	1.70	08			
	2695	SGMR	8	S	1305.3	1306.0	1.80	11			
	8800	SGMR	8	S	1305.3	1306.0	1.3	33			
	8800	ATHN	4	S/F	1305.3	1306.1	3.8	45			
	7000	SAOP	4	S/F	1305.3	1306.0	1.8	48.0	24.0		5R
	1415	SGMR	8	S	1305.6	1306.0	1.70	11			
	2800	OTTA	40	F	1323.0	1323.5	7.0	6.2			
	1470	POTS	1	S	1356.3	1356.7	.7	1.7			
	9500	POTS	1	S	1356.4	1357.0	1.9	6.3			
	7000	SAOP	21	GRF	1421.6		116.8	17.0	8.0		12L
	9500	POTS	28	PRE	1425.0	1430.2	27.0	19.0			
	2800	OTTA	27A	RF	1425.0		260.0	5.2	4.7		
	2800	OTTA	24	R	1425.0	1434	9.0	5.2	2.0		
	1470	POTS	42	SER	1427.0	1440.9	33.0	90.0			
	4995	SGMR	8	S	1427.3	1427.8	2.00	05			
	7000	SAOP	4	S/F	1427.4	1427.9	1.1	20.0	10.0		13R
	8800	SGMR	4	S/F	1427.5	1430.1	7.3	16			
	7000	SAOP	29	PRI	1428.5	1430.2	3.9	10.0	5.0		
	2800	OTTA	24P	R	1434.0		206.0	5.2			
	2800	OTTA	40	F	1435.0	1441	11.0	47.0			
	1415	SGMR	4	S/F	1438.6	1440.8	3.70	68			
	2695	SGMR	4	S/F	1438.8	1440.8	2.5	58			
	930	BORO			1439.0	1451.7		225.0			
	930	BORO	42	SER	1439.0	1441.3	14.0	250.0	2.0		
	3000	POTS	4	S/F	1439.0	1440.7	3.3	45.0			
	3200	BERN	8		1440.0	1440.6	1.2	64.00			ONLY PAPER REC
	606	SGMR	4	S/F	1440.3	1441.5	2.50	119			
	245	SGMR	4	S/F	1440.5	1441.0	5.50	119			
	113	POTS	4	S/F	1440.7	1440.9	.6	750.0	50.0		III
	7000	SAOP	2	S/F	1448.0	1448.8	1.4	10.0	5.0		0
	2800	OTTA	20	GRF	1455.0	1507	20.0	4.2	2.1		
	930	BORO	41	F	1517.4	1517.5	.2	25.0	2.0		
	9400	HUAN	3	S	1627.1	1627.5	1.5	22.2	9.5		0
	7000	SAOP	3	S	1627.3	1627.5	.8	38.0	19.0		0
	7000	SAOP	29	PBI	1628.2	1630.2	2.8	9.0	4.0		
	2800	OTTA	21	GRF	1650.0	1730	60.0	6.2	3.1		
	2800	OTTA	3	S	1654.0	1658.3	10.0	10.8	3.8		
	410	SGMR	8	S	1656.8	1657.1	1.00	89			
	245	SGMR	8	S	1657.1	1657.3	.5	210			
	2800	OTTA	1	S	1714.0	1715	6.0	7.6	2.8		
	4995	SGMR	4	S/F	1714.0	1715.1	2.6	15			
	2695	SGMR	4	S/F	1714.1	1715.0	2.40	05			
	2800	OTTA	26	FAL	1800.0	1845	45.0	-5.2	-3.0		
	2800	OTTA	21	GRF	2010.0	2125	135.0	7.0	4.0		
	2695	PENT	1	S	2013.0	2015	6.0	4.2	2.1		
	3750	TYKW	20	GRF	2120.0	2123.4	40.0	16.0	4.0		
	9400	TYKW	20	GRF	2120.0	2128	40.0	11.0	4.0		
	2000	TYKW	20	GRF	2240.0	2330	130.0	8.0	4.0		
	2695	PENT	20	GRF	2240.0	2315	190.0	15.0	8.0		
	1000	TYKW	20	GRF	2250.0	2315	120.0	4.0	2.0		
	9400	TYKW	21	GRF	2250.0	2330	130.0	5.0	2.5		RAIN
	3750	TYKW	21	GRF	2250.0	2330	125.0	8.0	5.0		
	410	LEAR	4	S/F	2300.0E	2309.3	89.80	17			
	245	LEAR	4	S/F	2300.0	2333.0	654.00	160			
	245	PALE	8	S	2301.5	2302.1	1.0	190			
	3750	TYKW	5	S	2312.0	2314.3	3.0	8.0	4.0		
	9400	TYKW	5	S	2313.0	2314.2	8.0	6.0	2.0		
	3750	TYKW	29	PBI	2315.0		13.0	4.0	1.5		
	245	PALE	8	S	2332.6	2332.8	.4	230			
22	260	ONDR	44	NS	0608.0E		482.00	74.0	11.0		
	430	KRAK	43	NS	0931.2		204.00	30.0	2.0		
	245	SGMR	43	NS	1002.0	1144.5	538.00	370			
	208	VORO	44	NS	2200.0E		240.00		11.0		
	245	LEAR	43	NS	2344.3	0245.8	609.70	46			
	208	VORO	4	S/F	0111.0	0112	3.0	150.00			
	410	LEAR	8	S	0112.0	0112.3	1.0	77			
	606	LEAR	8	S	0112.0	0112.1	.6	18			
	245	LEAR	47	GB	0112.0	0112.1	1.1	1900			
	2695	LEAR	8	S	0125.6	0125.6	.2	11			
	15400	LEAR	8	S	0125.6	0125.6	.4	22			
	1415	LEAR	4	S/F	0207.6	0209.3	4.2	17			
	245	LEAR	47	GB	0252.6	0252.6	.5	630			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
22	245	LEAR	8	S	0509.6	0509.8	.5	340			
	2695	LEAR	8	S	0509.6	0509.8	.4	17			
	4995	LEAR	4	S/F	0515.1	0519.8	45.0	15			
	245	LEAR	47	GB	0517.6	0517.8	.4	1199			
	113	POTS	4	S/F	0610.8	0611.1	2.0	8500.0	2000.0		III
	234	POTS	4	S/F	0611.0	0611.0	.5	1900.0	80.0		III
	100	HIRA	45	C	0611.0	0611.2	1.1	70000.00	1450.0		
	204	IZMI	4	S/F	0611.0	0611.0	.8	570.0	250.0		
	245	LEAR	47	GB	0611.0	0611.1	.5	590			
	4995	ATHN	4	S/F	0655.8	0657.6	3.0	23			ONLY PAPER REC
	3200	BERN	1		0656.0	0657.8	6.0	8.00			
	9395	PEKG	3	S	0656.0	0657.8	3.0	122.0	29.4		
	1470	POTS	1	S	0656.0	0657.2	4.0	3.6			ONLY PAPER REC
	5200	BERN	1		0656.1	0658.0	7.0	28.00			
	9500	POTS	4	S/F	0656.3	0657.9	2.6	19.0			
	3000	POTS	4	S/F	0656.9	0657.7	3.1	15.0			
	8800	ATHN	4	S/F	0657.0	0657.6	2.1	33			
	245	LEAR	4	S/F	0657.3	0657.6	594.6	70			
	3750	TYKW	5	S	0657.30	0657.8	1.00	12.0	3.0		RAIN
	9400	TYKW	5	S	0657.40	0657.8	1.00	26.00	6.00		
	2000	TYKW	5	S	0657.5	0657.8	1.0	3.0	1.0		
	6100	KISV	8	S	0657.6	0657.9	1.0	15.0			
	4995	LEAR	8	S	0657.6	0657.8	.2	23			
	8800	LEAR	8	S	0657.6	0657.8	.2	30			
	430	KRAK	42	SER	0710.0	0902.0	122.0	180.0			
	430	KRAK			0710.0	0903.0		230.0			
	4995	LEAR	8	S	0801.5	0801.8	1.3	06			
	8800	LEAR	8	S	0801.5	0801.8	1.5	09			
	2695	LEAR	8	S	0801.6	0801.8	.5	08			
	606	LEAR	8	S	0801.6	0801.8	.9	41			
	1415	LEAR	8	S	0801.6	0801.8	.2	11			
	536	ONDR	41	F	0810.0		320.0	20.0	8.0		
	4995	LEAR	8	S	0845.6	0846.6	1.2	11			
	8800	LEAR	8	S	0846.5	0846.8	.3	17			
	6100	KISV	8	S	0846.8	0846.9	.5	8.0			
	410	LEAR	8	S	0901.3	0902.6	2.0	110			
	810	KRAK	8	S	1023.0	1023.0	.2	13.0			
	7000	SAOP	1	S	1157.7	1158.3	1.6	9.0	4.0		0
	9500	POTS	1	S	1157.9	1158.5	1.6	4.6			
	7000	SAOP	29	PRI	1159.3	1159.3	2.6	3.0	1.0		
	2800	OTTA	27	RF	1230.0		115.0	3.8	3.3		
	2800	OTTA	24	R	1230.0	1235	5.0	3.8	1.8		
	7000	SAOP	20	GRF	1233.1		60.0	7.0	3.0		0
	2800	OTTA	24P	R	1235.0		85.0	3.8			
	2800	OTTA	26	FAL	1400.0	1425	25.0	-3.8			
	7000	SAOP	1	S	1443.0	1443.4	1.3	7.0	3.0		0
	4995	SGMR	4	S/F	1453.5	1454.5	3.00	13			
	2695	SGMR	4	S/F	1453.6	1455.3	5.0	18			
	3200	BERN	1		1453.7	1455.0	6.0	16.00			ONLY PAPER REC
	5200	BERN	1		1453.7	1455.0	3.0	8.00			ONLY PAPER REC
	2800	OTTA	3	S	1453.8	1455	4.2	17.8	8.9		
	2800	OTTA	29	PRI	1458.0	1458	50.0	6.2	3.1		
	2800	OTTA	20	GRF	1645.0	1705	55.0	3.8	2.2		
	2800	OTTA	8	S	1749.5	1750	.8	11.5	5.7		
	2800	OTTA	29	PRI	1750.3	1750.3	25.0	2.6	1.3		
	1000	TYKW	20	GRF	2110.0	2310	300.0	3.0	1.5		
	3750	TYKW	21	GRF	2110.00	2130	300.00	6.0	3.00		
	9400	TYKW	21	GRF	2110.00	2130 U	260.00	25.00	12.00		RAIN
	2000	TYKW	20	GRF	2110.0	2310	300.0	7.0	3.5		
	9400	TYKW	20	GRF	2250.0	2310	60.0	3.0	1.5		
	3750	TYKW	21	GRF	2250.0	2310	180.0	5.0	2.5		
	245	LEAR	8	S	2303.8	2304.8	1.0	160			
	410	LEAR	8	S	2304.6	2304.8	.2	13			
	606	LEAR	8	S	2304.6	2304.8	.2	20			
	410	LEAR	4	S/F	2356.3	2357.5	2.5	13			
23	410	LEAR	43	NS	0419.8	0420.3	334.20	13			
	260	ONDR	44	NS	0602.0E	1036.4	488.00	111.0	5.0		
	245	PALE	43	NS	1815.0	2127.5	600.00	52			
	208	VORO	44	NS	2200.0E		240.00		10.0		
	200	HIRA	43	NS	2300.0	0025	210.0	10.0	5.0		WR
	3750	TYKW	20	GRF	0015.0	0020	40.0	3.0	1.5		
	3750	TYKW	5	S	0125.0	0138	25.0	2.0	1.0		
	9395	PEKG	1	S	0229.0	0231.4	5.0				
	3750	TYKW	5	S	0237.0	0239.5	3.0	8.0	2.0		
	9400	TYKW	5	S	0238.0	0239.4	20.0	3.0	1.5		
	3750	TYKW	29	PRI	0240.0		25.0	2.0	1.0		
	410	LEAR	8	S	0313.0	0313.1	1.3	25			
	1000	TYKW	42	SER	0652.0	0706.3	15.0	170.0	2.0		
	930	BORD	42	SER	0654.0	0705.7	13.0	222.0	2.0		
	9500	POTS	1	S	0658.7	0705.4	12.0	4.7			
	1470	POTS	4	S/F	0700.5	0704.1	7.3	7.6			
	3000	POTS	1	S	0704.8	0705.7	2.6	3.9			
	430	KRAK	8	S	0853.0	0853.0	.2	28.0			
	410	SGMR	8	S	1037.8	1038.5	2.0	48			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
23	430	KRAK	4	S/F	1038.0	1038.5	1.5	150.0	20.0		
	245	SGMR	4	S/F	1038.1	1038.8	2.40	110			
	810	KRAK	8	S	1039.0	1039.0	.2	15.0			
	9400	HUAN	1	S	1531.7	1532.0	1.5	12.8	6.4		0
	2800	OTTA	20	GRF	1550.0	1625	60.0	3.2			
	2800	OTTA	20	GRF	1730.0	1825	170.0	9.8	4.9		
	3750	TYKW	21	GRF	2110.0	2155	215.0	8.0	4.0		
	2000	TYKW	21	GRF	2110.0	2155	215.0	2.0	1.0		
	9400	TYKW	20	GRF	2110.0	2155	200.0	6.0	3.0		
	2000	TYKW	5	S	2114.0	2117.3	15.0	9.0	3.0U		
	2800	OTTA	1	S	2114.0	2118	10.0	5.2	2.6		
	1000	TYKW	45	C	2116.0	2117.4	10.0U	7.0U	3.0U		
	3750	TYKW	5	S	2116.0	2117.5	3.0	10.0	5.0		
	3750	TYKW	29	PRI	2119.0		10.0	2.0	1.0		
24	260	ONDR	44	NS	0600.0E	0733.5	488.0D	74.0	4.0		
	245	SGMR	43	NS	1650.0	1747.5	130.0D	130			
	208	VORO	44	NS	2200.0E		240.0D		8.0		
	245	LEAR	8	S	0016.5	0016.6	.3	21			
	2000	TYKW	21	GRF	0100.0	0123	110.0	2.0	1.0		
	3750	TYKW	45	C	0103.0	0107.8	10.0	10.0	3.5		
	3750	TYKW	30	PRI	0113.0		90.0	2.0	1.0		
	2000	TYKW	20	GRF	0134.0	0142	70.0	7.0	3.0		
	3750	TYKW	20	GRF	0134.0	0142	75.0	12.0	6.0		
	9400	TYKW	20	GRF	0139.0	0155	70.0	5.0	2.5		
	3750	TYKW	5	S	0430.0	0432	10.0	3.0	1.0		
	113	POTS	4	S/F	0549.8	0554.6	5.5	280.0	20.0		III
	100	HIRA	42	SER	0550.0	0554.5	5.7	460.0			0
	234	POTS	42	SER	0551.2	0553.7	2.8	200.0	1.0E		III
	200	GORK	41	F	0728.0	0728.5	6.2	90.0			
	200	GORK			0728.0	0733.7		90.0D			
	234	POTS	42	SER	0728.3	0733.7	5.8	430.0	3.0		III
	113	POTS	42	SER	0728.5	0733	6.1	2300.0	60.0		III
	100	HIRA	46	C	0733.3	0733.7	1.3	3600.0	950.0		WL
	245	LEAR	8	S	0733.3	0733.6	.8	230			
	100	GORK	8	S	0733.5	0733.7	1.2	130.0D			
	200	HIRA	46	C	0733.6	0733.8	.8	520.0	130.0		0
	113	POTS	4	S/F	0848.4	0848.4	.4	700.0	70.0		III
	204	17MI	41	F	0934.0	0938.5	6.5	200.0			
	234	POTS	42	SER	0934.4	0939.3	5.8	100.0	1.0E		III
	113	POTS	42	SER	0934.4	0939.5	7.8	980.0	20.0		III
	810	KRAK	8	S	0940.0	0940.1	.2	20.0			
	3000	POTS	1	S	0943.0	0945.6	7.0	4.0			
	9500	POTS	1	S	0945.0	0945.5	1.3	7.4			
	5200	BERN	1		0945.0	0945.3	2.0	8.0			ONLY PAPER REC
	3200	BERN	1		0945.0	0945.3	2.0	6.0			ONLY PAPER REC
	2950	GORK	1	S	0945.2	0945.5	1.3	6.6	3.0		
	9500	POTS	27	RF	1001.5	1013.6	24.0	12.0			
	3000	POTS	27	RF	1005.0	1014.5	21.0	21.0			
	2950	GORK	1	S	1012.2	1013.2	3.0	5.3	1.5		
	9100	GORK	1	S	1045.2	1045.5	1.5	13.0			
	9100	GORK	20	GRF	1103.6	1113.5	75.0	13.0			
	7000	SAOP	20	GRF	1126.4		22.5	7.0	3.0		20R
	930	BORD	41	F	1252.2	1252.3	.2	19.0	2.0		
	113	POTS	42	SER	1307.6	1307.7	13.0	1700.0	12.0		III
	3000	POTS	4	S/F	1308.5	1309.3	1.5	11.0			
	9400	HUAN	20	GRF	1318.5	1335.2	33.8	5.5	3.1		0
	930	BORD	41	F	1326.4	1326.5	.2	24.0	2.0		
	2800	OTTA	240	R	1400.0	1540	100.0	8.8	4.4		
	3000	POTS	42	SER	1407.8	1413.8	8.4	15.0			
	7000	SAOP	28	PRE	1658.5	1658.8	1.2	4.0	2.0		
	7000	SAOP	3	S	1659.7	1700.4	1.3	18.0	9.0		16R
	7000	SAOP	29	PRI	1701.1	1701.1	3.1	7.0	3.0		
	2800	OTTA	21	GRF	1730.0	2210	330.0	10.8	5.4		
	606	SGMR	4	S/F	1841.6	1842.5	6.2D	45			
	2800	OTTA	3	S	1841.8	1842.2	2.0	30.0	10.0		
	2695	SGMR	4	S/F	1841.8	1842.3	2.7D	39			
	810	SGMR	8	S	1842.0	1842.3	.6D	180			
	4995	SGMR	8	S	1842.0	1842.3	1.8	25			
	245	SGMR	8	S	1842.1	1842.3	.5D	270			
	1415	SGMR	4	S/F	1842.1	1842.8	3.0D	33			
	2800	OTTA	1	S	2021.5	2023	6.0	5.0	2.5		
	1000	TYKW	20	GRF	2130.0	2210	120.0	3.0	1.5		
	2000	TYKW	20	GRF	2130.0	2210	120.0	6.0	3.0		
	3750	TYKW	20	GRF	2130.0	2210	120.0	7.0	3.5		
	9400	TYKW	20	GRF	2130.0	2220	120.0	6.0	3.0		
	9400	TYKW	20	GRF	2345.0	2400	60.0	3.0	1.5		
	2000	TYKW	20	GRF	2345.0	2400	60.0	2.0	1.0		
	2695	PENT	20	GRF	2345.0	0005	85.0	4.8	2.4		
	3750	TYKW	20	GRF	2347.0	2400 U	60.0	3.0U	1.0		
25	260	ONDR	44	NS	0602.0E	1030.8	485.0D	94.0	3.0		
	1000	TYKW	45	C	0202.7	0203.2	1.5	3.0	1.5		
	3750	TYKW	5	S	0513.0	0514.0	4.0	12.0	3.5		
	2000	TYKW	5	S	0513.0	0514.0	3.0	3.0	1.0		

SOLAR RADIO EMISSION
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AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
25	1000	TYKW	5	S	0513.0	0514.0	2.0	2.0	.7		
	2840	PEKG	1	S	0513.0	0514	3.0	10.0	7.0		
	6100	KISV	1	S	0513.2	0514	2.0	7.0			
	2950	GORK	1	S	0513.4	0514.0	1.5	5.0	2.5		
	9400	TYKW	5	S	0513.5	0514.0	3.0	10.0	2.0		
	9100	GORK	20	GRF	0513.5	0514.0	50.0	8.0			
	9395	PEKG	5	S	0513.7	0514.2	12.0	12.0	4.0		
	2000	TYKW	5	S	0552.0	0555.0	7.0	3.0	1.0		
	3750	TYKW	20	GRF	0630.0	0635	30.0	3.0	1.5		
	2000	TYKW	20	GRF	0630.0	0635	30.0	2.0	1.0		
	9400	TYKW	28	PRE	0707.0	0721	15.5	9.0	5.0		RAIN
	9500	POTS	4	S/F	0710.3	0723.6	18.0	20.0			
	2000	TYKW	28	PRE	0712.0	0717.6	10.5	9.0	2.0		
	3000	POTS	4	S/F	0715.0	0734.1	19.1	44.0			
	3750	TYKW	28	PRE	0717.0	0717.7	5.5	6.0	2.5		
	3200	BERN	4		0717.1	0723.6	12.0	29.0			ONLY PAPER REC
	5200	BERN	46		0717.1	0723.6	12.0	50.0			ONLY PAPER REC
	9100	GORK			0717.4	0723.5		27.0			
	9100	GORK	46	C	0717.4	0718.3	11.6	50.0			
	1470	POTS	4	S/F	0717.6	0729.2	21.0	38.0			
	930	BORD	3	S	0722.0	0724	6.0	41.0	20.0		
	536	ONDR	45	C	0722.0	0724	8.0	35.0	12.0		
	3100	CRIM	1	S	0722.0	0723.4	4.0	33.0	11.0		
	260	ONDR	4	S/F	0722.2	0723	3.0	222.00	28.0		
	950	GORK	3	S	0722.3	0724.0	2.7	35.0			
	2950	GORK	1	S	0722.4	0724.0	4.6	30.0	15.0		
	430	KRAK			0722.5	0724.3		680.00			
	3750	TYKW	45	C	0722.5	0723.9	3.5	31.0	11.0		
	1000	TYKW	5	S	0722.5	0724.1	13.0	38.0	10.0		
	2000	TYKW	5	S	0722.5	0724.0	4.5	42.0	15.0		
	810	KRAK			0722.5	0724		78.0			
	810	KRAK	4	S/F	0722.5	0722.8	7.1	27.0	10.0		
	430	KRAK	45	C	0722.5	0723.1	2.3	630.0	50.0		
	9400	TYKW	45	C	0722.5	0723.5	4.5	29.0	13.0		RAIN
	9395	PEKG	3	S	0722.5	0723.7	5.5	10.0			
	6100	KISV	40	F	0722.5	0723.5	2.0	21.0			
	204	IZMI	8	S	0722.5	0722.5	.3	440.0	240.0		
	2695	MANI	3	S	0722.5	0724.2	2.5	36.3	12.1		
	808	ONDR	3	S	0722.6	0724.2	7.5	28.0	15.0		
	234	POTS	41	F	0722.6	0724.0	1.8	170.0	4.0		
	650	GORK	4	S/F	0722.7	0724.0	4.3	19.0	9.0		
	4995	MANI	3	S	0722.7	0723.9	2.3	35.6	11.9		
	1415	MANI	3	S	0722.8	0724.2	5.5	46.0	15.3		
	8800	MANI	3	S	0723.0	0723.6	1.2	23.0	7.7		
	950	GORK	29	PRI	0725.0	0725.3	10.0	17.0			
	3750	TYKW	29	PRI	0726.0		10.0	3.0	1.0		
	9400	TYKW	29	PRI	0727.0		40.0	9.0	4.00		
	2000	TYKW	29	PRI	0727.0		40.00	5.0	2.00		
	3100	CRIM	26	FAL	1000.0	1035.0		12.0			
	204	IZMI	41	F	1030.5	1031.0	1.5	310.0			
	234	POTS	41	F	1030.6	1031.1	1.5	100.0	2.0		III
	113	POTS	41	F	1030.8	1031.1	1.4	100.0	4.0		III
	930	BORD	8	S	1313.0	1313	.1	39.0	1.0		
	113	POTS	42	SER	1317.3	1332.1	15.0	300.0	1.0E		III
	1470	POTS	1	S	1433.6	1436.5	5.6	2.7			
	3000	POTS	1	S	1435.0	1436.5	3.6	6.8			
	2800	OTTA	1	S	1435.0	1437	6.0	7.0	3.3		
	930	BORD	8	S	1509.9	1509.9	.1	19.0	1.0		
	2800	OTTA	21	GRF	1607.0	1625	55.0	5.0	2.5		
	2800	OTTA	1	S	1608.5	1609	2.0	4.6	2.3		
	2800	OTTA	240	FR	1805.0	1826	21.0	5.0			
	2800	OTTA	21	GRF	1827.0	1910	110.0	5.0			
	2800	OTTA	8	S	1828.7	1828.9	.3	9.2			
	2800	OTTA	1	S	1943.0	1943.7	4.5	7.2	3.6		
	2800	OTTA	240	R	2050.0	2100	10.0	3.8	1.9		
	245	LEAR	47	GB	2319.3	2320.0	.8	700			
	606	LEAR	8	S	2319.5	2319.8	1.0	49			
	1000	TYKW	5	S	2319.5	2319.7	1.5	4.0	1.0		
	2000	TYKW	5	S	2319.5	2319.9	1.0	3.0	1.0		
	410	LEAR	8	S	2319.6	2319.8	.2	42			
	3750	TYKW	45	C	2328.0	2330.8	6.0	6.0	2.0		
	1000	TYKW	45	C	2330.5	2330.8	2.5	2.0	.7		
	3750	TYKW	21	GRF	2350.0	2352	45.0	4.0	2.0		
	3750	TYKW	5	S	2358.0	2358.3	1.5	3.0	1.0		
26	245	LEAR	8	S	0000.6	0001.0	.7	43			
	208	VORO	40	F	0032.0	0046	20.0	25.0			
	3750	TYKW	28	PRE	0315.0	0332	17.0	9.0	3.5		
	2000	TYKW	28	PRE	0320.0	0332	12.0	7.0	3.0		
	1000	TYKW	20	GRF	0320.0	0327	90.0	5.0	1.5		
	9400	TYKW	21	GRF	0330.0	0400	130.0	21.0	12.0		
	2840	PEKG	3	S	0330.0	0333.7	43.0	48.0	13.0		
	9395	PEKG	24	R	0332.0	0402	30.0				
	3750	TYKW	45	C	0332.0	0333.4	13.0	36.0	24.0		
	2000	TYKW	45	C	0332.0	0333.6	10.0	31.0	20.0		

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
26	2695	LEAR	47	GB	0332.1	0333.6	14.2	46			
	4995	LEAR	47	GB	0333.1	0335.6	13.2	21			
	1415	LEAR	47	GB	0333.3	0335.5	13.0	13			
	8800	LEAR	47	GB	0333.6	0334.5	12.7	20			
	1415	LEAR	4	S/F	0335.8	0346.3	4.7	16			
	4995	LEAR	4	S/F	0336.8	0346.3	16.3	26			
	2695	LEAR	4	S/F	0336.8	0346.3	16.3	46			
	15400	LEAR	47	GB	0338.0	0339.0	8.3	20			
	2000	TYKW	30	PRI	0342.0		115.0	15.0	7.0		
	3750	TYKW	30	PRI	0345.0		150.0	22.0	11.0		
	15400	LEAR	47	GB	0346.3	0349.8	16.5	28			
	8800	LEAR	4	S/F	0346.3	0349.8	16.3	33			
	9100	GORK	20	GRF	0348.0E	0411.1	117.0D	22.0			
	2950	GORK	21	GRF	0351.0E	0352.0	129.0D	19.0			
	3750	TYKW	5	S	0414.0	0416.0	6.0	28.0	12.0		
	2840	PEKG	5	S	0414.0	0415	8.0	26.0	10.0		
	2000	TYKW	5	S	0414.5	0416.0	5.5	12.0	6.0		
	2950	GORK	3	S	0414.7	0415.9	6.3	26.0	13.0		
	9400	TYKW	5	S	0415.0	0417	10.0	5.0	2.0		
	9395	PEKG	1	S	0415.0	0416	7.0	7.0	4.0		
	3750	TYKW	29	PBI	0420.0		20.0	4.0	1.5		
	2000	TYKW	29	PRI	0420.0		15.0	3.0	1.5		
	410	LEAR	8	S	0516.1	0517.0	1.0	23			
	260	ONDR	42	SER	0642.0	0649.8	25.0	27.0			
	245	LEAR	8	S	0646.8	0647.8	2.0	97			
	204	IZMI	8	S	0647.5	0647.5	.5	75.0	53.0		
	2950	GORK	20	GRF	0654.0	0744.0	101.0	8.3			
	9100	GORK	20	GRF	0742.0	0802.2	72.0	8.5			
	6100	KISV	1	S	1020.0	1022.2	4.0	9.0			
	9100	GORK	20	GRF	1020.4	1022.3	37.0	11.0			
	3200	BERN			1021.0	1022.0	3.0	9.0			ONLY PAPER REC
	5200	BERN			1021.0	1022.0	4.0	11.0			ONLY PAPER REC
	2950	GORK	20	GRF	1021.5	1022.3	99.0	9.7			
	7000	SAOP	27	RF	1126.1		39.9	7.0	3.0		
	33	UPIC	42	SER	1305.5	1523.9	144.0				
	930	BORD	41	F	1510.3	1510.4	.2	60.0	2.0		
	2800	OTTA	21	GRF	1515.0	1550	125.0	5.4	2.7		
	930	BORD	41	F	1550.0	1550.1	.2	43.0	2.0		
	2800	OTTA	1	S	1619.3	1619.5	1.5	9.0	4.0		
	930	BORD	41	F	1723.7	1723.7	.2	20.0	2.0		
	9400	HUAN	21	GRF	1806.2	1816.2	32.8	3.5	2.1		R
	9400	HUAN	1	S	1812.7	1814.0	2.7	12.3	7.4		O
	2800	OTTA	20	GRF	1915.0	1930	75.0	4.6	2.3		
	2800	OTTA	4	S/F	2113.0	2114	3.0	12.0	5.0		
	3750	TYKW	20	GRF	2252.0	2300	50.0	3.0	1.5		
	9400	TYKW	5	S	2311.5	2312.3	1.5	18.0	5.0		
	1700	NORE	1	S	2312.1	2312.3	.7	21.0			L
	2695	PENT	240	R	2335.0	2350	15.0	4.6	2.3		
	606	LEAR	8	S	2354.8	2355.0	.5	22			
27	33	UPIC	43	NS	0612.3	0738	607.0D				
	2000	TYKW	21	GRF	0000.0	0116	205.0	14.0	7.0		
	1000	TYKW	21	GRF	0010.0	0110	190.0	5.0	3.0		
	3750	TYKW	21	GRF	0015.0	0122	180.0	14.0	9.0		
	2695	PENT	20	GRF	0015.0	0115	100.0D	16.2			
	9400	TYKW	21	GRF	0020.0	0100	130.0	8.0	4.0		
	3750	TYKW	5	S	0025.0	0026	2.0	3.0	1.0		
	9400	TYKW	5	S	0025.5	0026.0	1.5	9.0	2.5		
	245	LEAR	8	S	0040.1	0040.1	.2	13			
	3750	TYKW	5	S	0125.0	0126.6	4.0	2.0	.7		
	606	LEAR	8	S	0125.6	0126.3	1.4	17			
	410	LEAR	8	S	0125.6	0125.6	2.0	05			
	245	LEAR	8	S	0125.6	0125.8	2.0	31			
	2000	TYKW	5	S	0126.0	0126.7	1.5	3.5	1.0		
	410	LEAR	8	S	0135.6	0136.0	.9	11			
	2000	TYKW	20	GRF	0140.0	0150	40.0	3.0	1.5		
	3750	TYKW	45	C	0142.0	0143.5	8.0	5.0	3.0		
	3750	TYKW	30	PBI	0150.0		35.0	3.0	1.5		
	3750	TYKW	5	S	0221.3	0221.6	1.5	5.0	1.5		
	1000	TYKW	5	S	0235.0	0235.6	2.0	6.0	2.0		
	2000	TYKW	5	S	0235.0	0235.6	3.0	15.0	4.0		
	9400	TYKW	5	S	0235.0	0235.6	2.0	8.0	3.0		
	3750	TYKW	5	S	0235.0	0235.6	2.0	10.0	4.0		
	2840	PEKG	5	S	0235.0	0235.6	1.6	12.0	10.0		
	606	LEAR	8	S	0235.1	0235.3	.7	22			
	4995	LEAR	8	S	0235.1	0235.5	1.2	10			
	8800	LEAR	8	S	0235.1	0235.5	1.2	11			
	1415	LEAR	8	S	0235.1	0235.6	1.7	11			
	15400	LEAR	8	S	0235.1	0235.6	1.2	05			
	2695	LEAR	8	S	0235.3	0235.5	.3	19			
	9395	PEKG	5	S	0235.4	0235.5	4.0	230.0	4.0		
	4995	LEAR	4	S/F	0302.6	0304.5	3.5	18			
	8800	LEAR	4	S/F	0303.0	0304.5	3.1	23			
	2695	LEAR	4	S/F	0303.0	0304.6	3.1	31			
	1000	TYKW	5	S	0304.0	0304.5	3.0	8.0	2.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
27	3750	TYKW	5 S	0304.0	0304.5	2.0	16.0	5.0		
	2000	TYKW	5 S	0304.0	0304.7	1.00	36.0	14.00		
	606	LEAR	8 S	0304.1	0304.3	.7	17			
	15400	LEAR	8 S	0304.1	0304.5	.9	06			
	1415	LEAR	8 S	0304.1	0304.6	1.9	13			
	2695	MANI	3 S	0304.2	0304.8	1.1	23.5	7.8		
	4995	MANI	3 S	0304.2	0304.5	.8	11.5	3.8		
	8800	MANI	3 S	0304.2	0304.5	.8	20.5	6.8		
	606	MANI	1 S	0304.3	0304.8	.7	8.2	2.7		
	1415	MANI	1 S	0304.3	0304.8	1.8	9.4	3.1		
	410	LEAR	8 S	0311.3	0311.8	.5	50			
	606	LEAR	8 S	0311.3	0311.8	.5	39			
	2695	LEAR	8 S	0311.5	0311.8	.5	11			
	9395	PEKG	5 S	0327.3	0327.6	2.7	13.0	4.4		
	9100	GORK	23 GRF	0336.5	0425.2	500.0E	124.0			
	9400	TYKW	28 PRE	0345.0	0358.4	22.0	60.0	20.0		
	3750	TYKW	28 PRE	0351.0	0400.1	16.0	49.0	15.0		
	2000	TYKW	28 PRE	0352.0	0400.3	15.0	22.0	7.0		
	9395	PEKG	21 GRF	0354.0	0425.6	173.0	134.0			
	9395	PEKG	45 C	0356.0	0400.3	8.0	61.0			
	2950	GORK	21 GRF	0356.6		480.0E				
	9100	GORK	46 C	0357.2	0358.4	6.3	36.0			
	9100	GORK		0357.2	0400.1		37.0			
	4995	MANI	4 S/F	0357.7	0418.6	26.0	98.5	32.8		
	2840	PEKG		0358.0	0400.3		33.0			
	2840	PEKG	45 C	0358.0	0420	27.3	103.0	31.0		
	2695	MANI	4 S/F	0358.4	0420.2	25.6	114.2	38.1		
	2950	GORK	3 S	0359.2	0400.1	5.0	29.0	13.0		
	9400	TYKW	45 C	0407.0	0418.6	103.0	160.0	90.0		
	3750	TYKW	45 C	0407.0	0420.0	103.0	145.0	60.0		
	2000	TYKW	45 C	0407.0	0420.1	103.0	96.0	25.0		
	8800	LEAR	4 S/F	0410.0E	0417.0	12.00	130			
	8800	MANI	3 S	0411.0	0417.5	14.0	117.2	39.1		
	2695	LEAR	4 S/F	0411.0E	0420.1	11.00	119			
	1415	MANI	3 S	0411.0	0420.2	13.0	49.9	16.6		
	15400	LEAR	4 S/F	0412.0E	0416.5	10.00	180			
	950	GORK	22 GRF	0412.0	0420.0	19.0	24.0			
	1000	TYKW	45 C	0414.0	0421.3	16.0	32.0	9.0		
	1000	TYKW		0414.0	0420.1		31.0			
	1415	LEAR	4 S/F	0414.0E	0420.0	8.00	119			
	9100	GORK	4 S/F	0415.0	0417.9	8.1	85.0			
	650	GORK	22 GRF	0415.0	0418.8	12.0	6.0	3.0		
	9395	PEKG	45 C	0415.0	0420	7.3	116.0			
	606	MANI	4 S/F	0415.6	0417.5	6.4	46.0	15.3		
	2950	GORK		0415.7	0419.7		64.0			
	2950	GORK	45 C	0415.7	0418.6	6.0	48.0			
	606	LEAR	4 S/F	0416.0E	0420.0	6.00	22			
	650	GORK		0417.2	0419.8		28.0			
	650	GORK	40 F	0417.2	0417.3	2.8	15.0			R
	1700	NOBE	7 C	0417.5E	0417.5	9.00	133.0			
	4995	LEAR	8 S	0420.0E	0421.0	1.00	119			R
	1700	NOBE	30 PBI	0421.9	0421.9	12.0	88.0			
	2840	PEKG	30 PBI	0425.3		146.7	35.0	23.0		
	1000	TYKW	30 PBI	0430.0		100.0	3.5	1.5		
	100	GORK	46 C	0457.0	0458.8	4.7	70.00			
	100	GORK		0457.0	0501.7		1500.0			
	200	GORK	4 S/F	0457.1	0500.6	7.8	85.0			
	100	HIRA	41 F	0458.0	0500	2.6	1900.0			
	245	LEAR	47 GR	0459.6	0459.6	2.2	560			
	2840	PEKG	1 S	0459.7	0501	3.3	4.0	4.0		
	1000	TYKW	42 SER	0459.8	0502.0	2.5	33.0	3.0		
	410	LEAR	4 S/F	0506.3	0506.8	3.5	25			
	606	LEAR	8 S	0506.5	0506.8	.5	81			
	606	LEAR	4 S/F	0514.8	0514.8	389.6	52			
	9395	PEKG	3 S	0544.7	0545.9	3.3	17.0	6.0		
	9100	GORK	1 S	0545.0	0545.7	1.9	15.0			
	2000	TYKW	30 PBI	0550.0		90.0	14.0	7.0		
	9400	TYKW	30 PBI	0550.0		100.0	45.0	23.0		
	3750	TYKW	30 PBI	0550.0		100.0	28.0	14.0		
	9400	TYKW	45 C	0552.5	0554.7	10.5	160.0	33.0		
	3750	TYKW	45 C	0552.5	0555.5	7.50	85.0	30.00		
	9100	GORK	4 S/F	0552.7	0554.6	4.4	150.0			
	4995	MANI	4 S/F	0552.9	0554.4	6.1	144.3	48.1		
	2695	MANI	4 S/F	0553.0	0556.2	5.2	57.1	19.0		
	2000	TYKW	45 C	0553.0	0555.2	6.0	190.0	10.0		
	9395	PEKG	45 C	0553.0	0554.7	7.0	128.0	45.4		
	2840	PEKG	45 C	0553.0	0556.3	7.0	51.0	17.0		
	1700	NOBE	7 C	0553.0	0554.6	4.0	171.0			0
	8800	MANI	4 S/F	0553.1	0554.4	5.9	219.8	73.3		
	8800	LEAR	4 S/F	0553.1	0554.6	6.0	190			
	4995	LEAR	4 S/F	0553.1	0554.6	5.5	119			
	4995	ATHN	4 S/F	0553.1	0554.8	8.5	130			
	8800	ATHN	4 S/F	0553.1	0554.8	5.9	130			
	2695	ATHN	4 S/F	0553.1	0556.5	6.00	74			
	15400	LEAR	4 S/F	0553.5	0554.6	3.8	200			

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
27	2695	LEAR	4 S/F	0553.9	0556.1	4.0	51			
	3100	CRIM	3 S	0554.5	0557.5	6.0	54.0	18.0		
	3750	TYKW	29 PRI	0603.0E		57.0D	4.0D	2.0D		
	9400	TYKW	45 C	0608.0	0621	35.0	12.0	4.0		
	9395	PEKG	2 S/F	0651.0	0652	3.0	30.0	9.0		
	9400	TYKW	5 S	0700.0	0703	10.0	8.0	4.0		
	9395	PEKG	45 C	0702.3	0702.6	2.7	24.0	7.2		
	260	ONDR	42 SER	0708.2	0738.3	97.0	64.0			
	204	IZMI	4 S/F	0738.0	0738.0	1.0	320.0	140.0		
	245	LEAR	8 S	0738.0	0738.1	.5	76			
	430	KRAK		0816.2	0826.2		270.0			
	430	KRAK	42 SER	0816.2	0818.7	9.7	250.0			
	536	ONDR	42 SER	0816.5	0823.4	115.0	48.0			
	410	LEAR	8 S	0818.5	0818.8	1.3	119			
	410	LEAR	4 S/F	0820.3	0826.1	5.8	119			
	606	LEAR	8 S	0822.5	0823.0	1.3	45			
	245	LEAR	8 S	0826.1	0826.3	.2	23			
	204	IZMI	8 S	0939.3	0939.5	.8	44.0	3.0		
	606	LEAR	8 S	0940.1	0940.1	.2	37			
	536	ONDR	42 SER	1049.0	1057	9.5	43.0			
	430	KRAK	4 S/F	1056.2	1057.2	1.7	230.0	20.0		
	930	BORD	41 F	1104.0	1104.4	.4	26.0	2.0		
	260	ONDR	8 S	1129.5	1129.5	.3	28.0			
	2800	OTTA	21 GRF	1240.0	1304	60.0	5.4	2.7		
	2800	OTTA	1 S	1248.0	1249	3.0	5.2	2.6		
	930	BORD	42 SER	1300.0	1302	6.0	64.0	2.0		
	536	ONDR	42 SER	1300.0	1300.6	28.0	58.0			
	260	ONDR	8 S	1307.2	1307.2	.2	21.0			
	930	BORD	41 F	1313.1	1313.2	.2	41.0	2.0		
	930	BORD	41 F	1422.6	1422.6	.4	28.0	2.0		
	7000	SAOP	20 GRF	1510.0		13.0	10.0	5.0		0
	2800	OTTA	20 GRF	1645.0	1700	45.0	6.4	3.6		
	930	BORD	41 F	1649.6	1650	.6	35.0	2.0		
	2800	OTTA	21 GRF	1750.0	2050	420.0	12.4			
	7000	SAOP	1 S	1755.7	1756.1	1.3	7.0	3.0		0
	606	PALE	8 S	1859.1	1859.1	.2	36			
	2800	OTTA	1 S	1907.0	1907.7	3.0	8.8	4.4		
	7000	SAOP	1 S	1907.1	1907.8	2.6	7.0	3.0		31R
	9400	HUAN	3 S	2006.6	2007.2	1.8	42.7	17.1		R
	3750	TYKW	5 S	2213.0	2214.0	3.0	11.0	3.0U		RAIN
	100	HIRA	46 C	2213.5	2213.7	2.3	920.0	280.0		WR
	2800	OTTA	1 S	2213.5	2214	2.5	9.8	3.2		
	200	HIRA	46 C	2213.6	2214.0	1.2	190.0	45.0		0
	606	LEAR	8 S	2354.8	2355.0	.5	22			
28	245	LEAR	43 NS	0044.1	0244.3	551.9D	43			
	208	VORO	44 NS	2200.0E		240.0D		8.0		
	3750	TYKW	5 S	0015.0	0015.7	1.5	5.0	1.5		RAIN
	606	LEAR	8 S	0029.1	0029.3	.5	37			
	410	LEAR	47 GR	0040.6	0043.6	3.2	18			
	410	LEAR	8 S	0102.5	0103.3	1.1	20			
	245	LEAR	8 S	0102.5	0103.3	1.0	62			
	410	LEAR	8 S	0117.3	0117.6	.5	15			
	100	HIRA	46 C	0136.2	0137.2	4.3	1800.0	130.0		0
	1415	LEAR	4 S/F	0136.3	0137.3	3.2	11			
	200	HIRA	46 C	0136.6	0137.1	2.0	260.0	75.0		WR
	200	HIRA	46 C	0136.6	0137.1	2.0	260.0	75.0		WR
	1000	TYKW	5 S	0137.0	0137.3	2.0	1.5	.5		
	9400	TYKW	5 S	0137.0	0137.5	3.0	5.0U	1.5U		RAIN
	3750	TYKW	45 C	0137.0	0137.3	3.0	10.0	2.5		
	2000	TYKW	5 S	0137.0	0137.3	2.0	12.0	3.5		
	2695	PENT	3 S	0137.0	0137.4	1.0	11.6	5.8		
	2695	LEAR	8 S	0137.0	0137.3	1.0	16			
	245	LEAR	8 S	0137.0	0137.5	1.3	34			
	8800	LEAR	4 S/F	0137.0	0137.6	3.3	08			
	4995	LEAR	4 S/F	0137.1	0137.3	2.4	09			
	15400	LEAR	4 S/F	0137.3	0138.1	3.8	13			
	2000	TYKW	5 S	0146.0	0147	4.0	3.5	1.5		
	1000	TYKW	5 S	0146.0	0147	3.0	1.5	.5		
	3750	TYKW	5 S	0146.0	0147	4.0	3.0	1.0		RAIN
	410	LEAR	8 S	0320.3	0320.6	.3	13			
	3750	TYKW	28 PRE	0334.0	0343.7	10.0	6.0	2.0		
	9400	TYKW	28 PRE	0334.5	0335.4	9.5	10.0	4.0		RAIN
	9395	PEKG	3 S	0335.0	0335.3	3.0	20.0			
	1000	TYKW	42 SER	0335.3	0335.8	1.5	120.0	4.0		
	200	GORK	41 F	0338.0	0342.7	11.1	60.0			
	200	GORK		0338.0	0342.6		60.0			
	950	GORK	46 C	0340.2	0343.7	6.7	18.0			
	950	GORK		0340.2	0345.5		140.0			
	650	GORK		0340.4	0343.6U		25.0D			
	650	GORK	46 C	0340.4	0342.5	7.6	25.0			
	650	GORK		0340.4	0347.8		100.0			
	1000	TYKW	28 PRE	0341.0	0343.8	3.0	62.0	6.0		
	1000	TYKW		0341.0	0342.3		58.0			
	2000	TYKW	28 PRE	0341.3	0341.7	2.7	22.0	4.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
28	9100	GORK	21 GRF	0341.5	0450.5	108.0	27.0			
	1415	MANI	4 S/F	0341.F	0342.1	6.5	96.9	32.3		
	1415	LEAR	47 GB	0341.6	0342.3	6.5	130			
	2840	PEKG	2 S/F	0341.6	0346.3	42.4	67.0	8.0		
	100	GORK		0342.4	0350.0		20.0			
	100	GORK		0342.4	0348.0		35.0			
	100	GORK		0342.4	0343.9		30.0			
	100	GORK	41 F	0342.4	0342.6	7.8	40.0D			
	606	MANI	4 S/F	0342.4	0342.8	3.6	44.6	14.9		
	8800	MANI	3 S	0343.5	0346.2	4.5	139.1	46.4		
	4995	MANI	3 S	0344.0	0346.1	4.0	130.4	43.5		
	2695	MANI	3 S	0344.0	0346.1	4.0	42.8	14.3		
	9400	TYKW	45 C	0344.0	0346.3	16.0	110.0	23.0		
	3750	TYKW	45 C	0344.0	0346.3	16.0	84.0	16.0		
	2000	TYKW	45 C	0344.0	0346.3	26.0	38.0	7.0		
	1000	TYKW	45 C	0344.0	0345.5	6.0	160.0	10.0		
	9395	PEKG	2 S/F	0344.0	0346.3	16.0	104.0	22.0		
	8800	LEAR	47 GB	0344.1	0344.3	4.5	16			
	4995	LEAR	47 GB	0344.1	0344.3	4.2	11			
	410	LEAR	4 S/F	0344.3E	0344.5	4.5D	490			
	9100	GORK	3 S	0344.5	0346.3	3.8	100.0			
	1700	NORE	2 S/F	0344.8	0346.3	6.4	56.0			0
	2695	LEAR	4 S/F	0344.8	0346.3	3.7	53			
	15400	LEAR	4 S/F	0345.1	0346.1	4.7	68			
	1415	PALE	8 S	0345.5	0346.1	1.1	32			
	15400	PALE	4 S/F	0345.5	0347.0	4.5	46			
	606	PALE	4 S/F	0345.5	0348.0	2.5	100			
	8800	PALE	4 S/F	0345.5	0347.8	2.5	27			
	4995	PALE	8 S	0345.5	0346.3	1.0	41			
	245	LEAR	4 S/F	0347.1E	0347.3	2.7D	61			
	606	LEAR	8 S	0347.6E	0348.0	.5D	130			
	200	GORK	27 RF	0349.3	0355.1	27.5	13.0			
	1000	TYKW	30 PBI	0350.0		130.0	2.0	1.0		
	1700	NORE	29 PBI	0351.2	0351.2	11.0	19.0			0
	9400	TYKW	29 PBI	0400.0		90.0	8.0	3.0		
	3750	TYKW	29 PBI	0400.0		90.0	7.0	3.0		
	2000	TYKW	29 PBI	0410.0		110.0	3.0	1.5		
	410	LEAR	8 S	0544.8	0545.0	.3	360			
	245	LEAR	8 S	0547.6	0547.8	.4	110			
	606	LEAR	8 S	0547.6	0547.8	.5	17			
	410	LEAR	8 S	0547.6	0547.8	.2	340			
	1000	TYKW	45 C	0547.7	0548.2	1.0	3.5	1.0		
	606	LEAR	8 S	0554.3	0555.0	.8	40			
	2000	TYKW	45 C	0618.0	0710.8	60.0	14.0	1.0U		
	3750	TYKW	45 C	0618.0	0630.4	50.0	10.0	1.5U		
	9395	PEKG	3 S	0703.2	0703.7	1.8	11.0			
	1415	LEAR	8 S	0710.3	0710.8	.5	26			
	9100	GORK	20 GRF	0837.0	1030.7	263.0E	30.0			
	430	KRAK	42 SER	0846.5	0905.6	34.0	670.0D			
	430	KRAK		0846.5	0919.2		670.0D			
	536	ONDR	42 SER	0901.4	0904.1	80.0	124.0			
	3100	CRIM	1 S	0905.5	0905.9	1.0	8.0	3.0		
	2950	GORK	1 S	0905.7	0906.0	1.0	9.0	4.5		
	650	GORK	4 S/F	0905.7	0906.4	.9	25.0	5.0		
	810	KRAK	1 S	0905.8	0906.3	1.1	9.0	4.0		
	606	LEAR	8 S	0905.8	0906.5	.8	190			
	410	LEAR	47 GB	0905.8	0906.0	.3	2000			
	930	BORD	41 F	0906.0	0906	1.0	14.0	4.0		
	410	LEAR	47 GB	0919.1	0919.3	.7	770			
	606	LEAR	8 S	0919.1	0919.3	.7	20			
	33	UPIC	45 C	0929.8	0930	2.6				
	810	KRAK	40 F	0929.8	0930.8	2.3	40.0	4.0		
	650	GORK	4 S/F	0930.0	0931.0	2.3	14.0	5.0		
	930	BORD	41 F	0930.0	0930	2.2	58.0	3.0		
	1415	LEAR	8 S	0930.6	0930.8	.5	33			
	606	LEAR	4 S/F	0930.8	0930.8	.6	23			
	930	BORD	41 F	0957.0	0957.4	.9	32.0	2.0		
	2950	GORK	20 GRF	1003.0	1030.0	60.0	15.0			
	930	BORD	42 SER	1018.0	1018.8	5.5	81.0	2.0		
	33	UPIC	42 SER	1128.0	1507.7	236.8				
	260	ONDR	42 SER	1131.0	1316.5	126.0	67.0			
	2800	OTTA	8 S	1146.8	1146.9	.2	5.2			
	1415	SGMR	4 S/F	1214.1	1214.8	2.5D	11			
	2695	SGMR	4 S/F	1214.1	1214.5	2.9D	08			
	430	KRAK	8 S	1214.1	1214.6	.6	94.0			
	410	SGMR	8 S	1214.3	1214.6	.7D	55			
	4995	SGMR	8 S	1214.3	1214.6	1.8	07			
	2800	OTTA	1 S	1214.5	1214.7	1.0	6.6	3.3		
	930	BORD	41 F	1231.0	1231.5	1.3	32.0	3.0		
	228	HARS	7 C	1231.1	1231.7	1.4	155.0	35.0		
	536	ONDR	4 S/F	1248.0	1249.3	2.0	53.0			
	930	BORD	46 C	1304.3	1304.8	.7	81.0	4.0		
	228	HARS	45 C	1315.1	1317.2	3.0	145.0	30.0		
	7000	SAOP	3 S	1349.7	1350.2	.8	13.0	6.0		10R
	7000	SAOP	41 F	1350.5						2

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DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
28	7000	SAOP	29 PBI	1350.5	1350.5	2.6	5.0	2.0		
	7000	SAOP	1 S	1405.6	1405.9	.5	7.0	3.0		20R
	7000	SAOP	29 PBI	1406.1	1406.1	1.3	3.0	1.0		
	606	SGMR	4 S/F	1407.6	1409.0	3.0D	16			
	1415	SGMR	4 S/F	1408.0	1409.1	2.8D	04			
	5200	BERN	3	1408.3	1409.0	2.0	21.0			ONLY PAPER REC
	3200	BERN	3	1408.3	1409.0	2.0	11.0			ONLY PAPER REC
	228	HARS	45 C	1408.3	1409.5	2.0	145.0	25.0		
	2695	SGMR	8 S	1408.5	1409.1	1.8D	11			
	245	SGMR	4 S/F	1408.5	1409.5	2.3	130			
	4995	SGMR	8 S	1408.8	1409.3	1.7D	21			
	7000	SAOP	20 GRF	1408.9	1409.3	2.3	10.0	5.0		19L
	7000	SAOP	41 F	1408.9						3
	228	HARS	47 GR	1417.6	1423.5U	12.5	350.0D	65.0		
	245	SGMR	4 S/F	1419.8	1423.0	7.2	490			
	410	SGMR	4 S/F	1422.5	1423.0	7.5D	30			
	9400	HUAN	20 GRF	1422.7	1433.6	18.6	9.1	3.5		0
	2800	OTTA	22 GRF	1424.0	1432	20.0	15.4	7.0		
	930	BORO	41 F	1458.6	1458.6	.2	58.0	2.0		
	245	SGMR	4 S/F	1504.8	1507.3	3.5	240			
	606	SGMR	4 S/F	1505.6	1507.6	4.4D	37			
	410	SGMR	4 S/F	1506.3	1508.5	3.0D	21			
	5200	BERN	3	1507.5	1508.0	8.0	47.0			ONLY PAPER REC
	3200	BERN	3	1507.5	1508.0	8.0	34.0			ONLY PAPER REC
	4995	SGMR	8 S	1507.5	1508.3	1.3D	49			
	1415	SGMR	8 S	1507.5	1508.3	1.3D	16			
	1415	ATHN	4 S/F	1507.6	1508.3	9.2D	21			
	2695	SGMR	8 S	1507.6	1508.1	1.4D	47			
	8800	ATHN	4 S/F	1507.6	1508.3	9.2	51			
	2695	ATHN	4 S/F	1507.6	1508.3	9.2D	43			
	4995	ATHN	4 S/F	1507.6	1508.3	9.2	69			
	9400	HUAN	2 S/F	1507.6	1508.3	1.5	42.0	17.2		L
	930	BORO	42 SER	1507.7	1509.7	7.0	52.0	4.0		
	8800	SGMR	8 S	1507.8	1508.1	.8D	37			
	2800	OTTA	3 S	1507.9	1508.2	1.5	46.0	16.0		
	7000	SAOP	4 S/F	1507.9	1508.3	1.3	63.0	31.0		33L
	7000	SAOP	20 GRF	1511.3	1512.6	8.0	12.0	6.0		22L
	2800	OTTA	1 S	1512.0	1512.5	2.5	5.2	2.6		
	410	SGMR	4 S/F	1521.1	1523.1	2.9D	16			
	606	SGMR	8 S	1522.3	1522.8	1.7D	170			
	7000	SAOP	1 S	1522.7	1523.3	1.1	8.0	4.0		23L
	7000	SAOP	29 PBI	1522.9	1524.8	2.4	3.0	1.0		
	245	SGMR	8 S	1523.0	1523.3	.5D	52			
	1415	SGMR	8 S	1523.1	1523.3	.7	11			
	7000	SAOP	3 S	1702.6	1703.0	.7	12.0	6.0		34L
	7000	SAOP	29 PBI	1703.2	1703.2	1.6	5.0	2.0		
	9400	HUAN	20 GRF	1720.8	1725.0	18.7	11.0	2.0		0
	2800	OTTA	4 S/F	1722.0	1725	6.0	10.2	2.8		
	245	SGMR	4 S/F	1833.0	1833.5	2.6D	43			
	606	SGMR	8 S	1833.1	1834.1	1.5	95			
	410	SGMR	8 S	1833.6	1834.3	2.0D	55			
	2800	OTTA	20 GRF	1837.0	1841	11.0	6.2	3.0		
	2800	OTTA	2 S/F	1858.0	1859	4.0	6.2	3.0		
	7000	SAOP	3 S	1901.4	1901.7	.7	11.0	5.0		13L
	2800	OTTA	8 S	1920.0	1920.1	.4	6.6			
	2800	OTTA	2 S/F	1923.0	1923.6	1.0	6.6			
	2800	OTTA	1 S	2001.2	2001.7	1.0	6.6	3.3		
	2800	OTTA	21 GRF	2017.0	2018	20.0	7.6	3.8		
	606	PALE	8 S	2017.8	2018.0	.3	28			
	2800	OTTA	4 S/F	2029.0	2029.5	1.0	34.0			
	2000	TYKW	20 GRF	2150.0	2240 U	120.0	5.0U	2.5U		
	9400	TYKW	20 GRF	2220.0U	2300	90.0U	4.0	2.0		RAIN
	3750	TYKW	20 GRF	2220.0	2300	90.0	5.0	2.5		
29	245	LEAR	43 NS	0131.8	0224.5	504.2D	33			
	33	UPIC	43 NS	0453.4	1305.1	606.0D				
	208	VORO	44 NS	2200.0E		240.0D		10.0		
	2000	TYKW	21 GRF	0030.0	0120	130.0	1.5	.7		
	9400	TYKW	20 GRF	0035.0	0042	50.0U	4.0	2.0		RAIN
	3750	TYKW	21 GRF	0035.0	0055	120.0	3.0	1.5		
	245	LEAR	8 S	0055.6	0055.8	.5	52			
	606	LEAR	8 S	0059.3	0059.5	.3	08			
	410	LEAR	8 S	0059.3	0059.5	.5	11			
	245	LEAR	8 S	0059.5	0059.6	.5	17			
	245	LEAR	8 S	0125.3	0125.3	.2	150			
	2000	TYKW	45 C	0140.0	0148.3	15.0	6.0	2.0		
	9395	PEKG	5 S	0140.0	0140.6	2.0	16.4	7.0		
	410	LEAR	8 S	0140.6	0141.0	.7	65			
	606	LEAR	8 S	0140.8	0141.0	.8	76			
	245	LEAR	8 S	0140.8	0140.8	.5	100			
	3750	TYKW	20 GRF	0146.0	0200	45.0	3.5	2.0		
	2000	TYKW	29 PBI	0155.0		25.0	2.0	1.0		
	2000	TYKW	45 C	0251.0	0254.3	13.0	4.0	2.0		
	3750	TYKW	5 S	0253.0	0254.2	3.0	2.0	.7		
	410	LEAR	8 S	0303.8	0304.0	.3	23			

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
29	2000	TYKW	29	PBI	0304.0		80.0	2.0	1.0		
	3750	TYKW	5	S	0309.0	0311	3.0D	2.5	1.0		
	2000	TYKW	21	GRF	0443.0	0650	180.0	7.0	4.0		
	3750	TYKW	28	PRE	0444.0	0454.1	29.0	11.0	2.5		
	2950	GORK	21	GRF	0451.5	0636.0	290.0E	13.0			
	100	GORK			0452.3	0454.0		1900.0			
	100	GORK	46	C	0452.3	0452.4	2.8	50.0D			
	100	GORK			0452.3	0454.4		770.0			
	200	GORK	2	S/F	0452.4	0454.0	2.3	130.0			
	100	HIRA	46	C	0452.6	0453.3	2.3	4700.0	480.0		O
	200	HIRA	46	C	0452.7	0453.2	2.1	760.0	44.0		WR
	200	HIRA	46	C	0452.7	0453.2	2.1	760.0	44.0		WR
	650	GORK	4	S/F	0452.9	0454.0	2.4	7.5	3.0		
	2000	TYKW	5	S	0453.0	0454.1	3.0	10.0	2.5		
	950	GORK	4	S/F	0453.0	0454.0	2.6	14.0			
	1000	TYKW	42	SER	0453.0	0454.0	6.0	16.0	1.5		
	245	LEAR	8	S	0453.1	0453.3	1.2	400			
	1415	LEAR	8	S	0453.1	0454.1	1.9	13			
	606	LEAR	4	S/F	0453.1	0455.0	2.4	26			
	2695	LEAR	8	S	0453.1	0454.0	2.0	11			
	410	LEAR	4	S/F	0453.1	0454.0	2.7	40			
	4995	LEAR	8	S	0453.1	0454.1	1.7	11			
	8800	LEAR	8	S	0453.3	0454.1	1.0	11			
	2950	GORK	1	S	0453.4	0454.0	1.4	9.0	4.5		
	9400	TYKW	5	S	0453.5	0454.1	10.0	6.0	2.0		RAIN
	9100	GORK	1	S	0453.7	0454.1	2.4	6.0			
	2000	TYKW	29	PBI	0456.0		7.0	1.0	.5		
	3750	TYKW	45	C	0513.0	0643	110.0	17.0	10.0		
	9400	TYKW	28	PRE	0522.0	0539.3	51.0	10.0	4.0		
	1000	TYKW	42	SER	0530.7	0550.6	25.7	84.0	12.0		
	9100	GORK	22	GRF	0538.7	0643.2	88.6	24.0			
	1000	TYKW	42	SER	0556.0	0606.3	27.0	40.0	4.0D		
	9400	TYKW	45	C	0613.0	0643.3	45.0	24.0	9.0		
	9500	POTS	27	RF	0626.5	0644.4	48.0	14.0			
	1000	TYKW	42	SER	0629.0	0637.1	27.0	52.0	6.0		
	8800	LEAR	47	GB	0633.1	0635.3	13.5	19			
	4995	LEAR	47	GB	0633.5	0635.3	15.3	13			
	15400	LEAR	47	GB	0635.8	0635.8		13			
	2695	LEAR	4	S/F	0644.6	0644.6	569.2	11			
	9400	TYKW	29	PBI	0658.0		40.0	8.0	4.0		
	3750	TYKW	29	PRI	0703.0		40.0	6.0	3.0		
	9500	POTS	4	S/F	0749.0	0800.4	24.0	50.0			
	1470	POTS	27	RF	0750.0	0808	30.0	7.9			
	2840	PEKG	21	GRF	0756.0	0800	5.0				
	9395	PEKG	5	S	0758.0	0800	9.0	28.0			
	8800	ATHN	4	S/F	0758.8	0759.6	2.3	49			
	3200	BERN	3		0759.0	0759.5	2.0	17.0			ONLY PAPER REC
	5200	BERN	3		0759.0	0759.5	2.0	27.0			ONLY PAPER REC
	3750	TYKW	5	S	0759.0	0759.8	2.0	20.0	5.0		
	2000	TYKW	5	S	0759.0	0759.8	2.0	11.0	2.0		
	15400	LEAR	8	S	0759.1	0759.8	1.4	28			
	4995	LEAR	8	S	0759.1	0759.8	1.4	36			
	2695	LEAR	8	S	0759.1	0759.8	1.2	24			
	8800	LEAR	8	S	0759.1	0759.6	1.4	77			
	4995	ATHN	8	S	0759.1	0759.6	1.5	24			
	6100	KISV	4	S/F	0759.2	0759.8	2.0	29.0			
	2950	GORK	1	S	0759.3	0759.9	1.2	16.0	8.0		
	9100	GORK	3	S	0759.3	0759.9	1.2	63.0			
	9400	TYKW	5	S	0759.4	0759.7	2.5	55.0	12.0		RAIN
	2695	ATHN	8	S	0759.6	0759.6	1.5D	15			
	3000	POTS	4	S/F	0800.0	0800.5	1.0	14.0			
	9100	GORK	29	PBI	0800.5	0800.5	11.3	14.0			
	9100	GORK	20	GRF	0846.7	0857.2	60.0E	10.0			
	1470	POTS	1	S	1021.3	1021.6	.7	2.0			
	9500	POTS	1	S	1021.3	1021.4	.7	4.6			
	810	KRAK	8	S	1030.3	1030.3	.2	32.0			
	113	POTS	42	SER	1037.4	1037.4	1.3	100.0	3.0		
	9500	POTS	4	S/F	1056.0	1058.2	4.0	11.0			
	1470	POTS	1	S	1056.5	1059.5	3.5	2.1			
	3000	POTS	4	S/F	1057.0	1058.0	1.6	13.0			
	6100	KISV	45	C	1058.0	1058.2	.5	8.0			
	1470	POTS	28	PRE	1300.0	1304.5	21.0	9.7			
	3000	POTS	28	PRE	1301.5	1304.4	19.0	35.0			
	2800	OTTA	21	GRF	1302.0		18.0	5.2	4.0		
	260	ONDR	45	C	1302.5	1304	6.5	108.0	22.0		
	33	UPIC	46	C	1302.5	1305.1	4.6				
	536	ONDR	2	S/F	1303.0	1304	3.5	35.0	4.0		
	5200	BERN	4		1303.0	1304.1	2.0	27.0			ONLY PAPER REC
	3200	BERN	4		1303.0	1304.1	2.0	28.0			ONLY PAPER REC
	245	SGMR	4	S/F	1303.1	1304.5	2.2D	119			
	113	POTS	4	S/F	1303.2	1304.7	2.4	600.0	120.0		III
	228	HARS	7	C	1303.3	1304.8	1.7	170.0	45.0		
	410	SGMR	4	S/F	1303.3	1304.3	2.7D	86			
	234	POTS	4	S/F	1303.5	1304.7	1.4	150.0	15.0		III
	2695	SGMR	8	S	1303.6	1304.5	1.5D	32			

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
29	4995	SGMR	8	S	1303.6	1304.5	1.7D	60			
	1415	SGMR	4	S/F	1303.6	1304.5	2.2D	16			
	9500	POTS	28	PRE	1303.9	1304.5	16.0	41.0			
	9400	HUAN	2	S/F	1303.9	1304.7	1.7	45.9	16.6		L
	2800	OTTA	3	S	1304.0	1304.5	1.2	31.0	15.0		
	8800	SGMR	8	S	1304.0	1304.6	1.6D	44			
	606	SGMR	4	S/F	1304.1	1304.5	2.2D	19			
	15400	SGMR	8	S	1304.1	1304.5	1.5	18			
	2695	ATHN	4	S/F	1335.3	1337.3	4.0D	33			
	3000	POTS	1	S	1335.5	1337.0	3.8	6.5			
	9500	POTS	4	S/F	1335.7	1337.9	5.3	70.0			
	9400	HUAN			1335.7	1338.0		80.8			
	9400	HUAN	4	S/F	1335.7	1337.5	3.8	78.2	44.4		L
	7000	SAOP	45	C	1335.8	1337.1	3.5	42.0	21.0		13L
	2800	OTTA	2	S/F	1336.0	1337	3.0	3.6	1.8		
	15400	SGMR	4	S/F	1336.1	1337.3	4.0D	190			
	8800	SGMR	4	S/F	1336.1	1337.5	4.0D	43			
	4995	SGMR	4	S/F	1336.3	1337.3	2.8D	18			
	8800	ATHN	4	S/F	1336.3	1337.6	3.0	13			
	2695	SGMR	4	S/F	1336.5	1337.1	2.1D	06			
	4995	ATHN	4	S/F	1336.6	1337.6	2.7	17			
	5200	BERN	3		1337.0	1337.3	3.0	16.0			ONLY PAPER REC
	9400	HUAN	29	PBI	1339.5	1339.5	9.8	5.1	3.4		0
	7000	SAOP	27	RF	1414.4		2.4	11.0	5.0		
	3200	BERN	3		1554.5	1554.8	2.0	11.0			ONLY PAPER REC
	2800	OTTA	3	S	1554.5	1555	2.0	15.6	5.2		
	2650	DWIN	1	S	1555.0	1555	1.0	20.0	5.0		
	2800	OTTA	260	FAL	1600.0	1620	20.0	-8.0	-4.0		
	2800	OTTA	23	GRF	1810.0	2050	280.0D	38.0			
	2800	OTTA	1	S	1857.0	1857.7	1.0	8.4	4.2		
	2800	OTTA	46F	C	1947.0	1951.5	60.0	320.0	99.0		
	9400	HUAN	23	GRF	1948.2	1957.8	87.2	98.6	25.2		L
	2695	PALE	47	GR	1948.6	1956.1	59.9	330			
	1415	PALE	47	GR	1949.6	1956.1	58.9	110			
	7000	SAOP	28	PRE	1950.0	1950.8	2.0	21.0	10.0		10L
	9400	HUAN	2	S/F	1950.2	1950.8	1.1	25.5	10.2		L
	7000	SAOP	46	C	1952.0	1956.7		158.0	79.0		18L
	4995	PALE	47	GR	1952.6	1956.1	26.9	200			
	15400	PALE	4	S/F	1953.6	1959.5	25.9	76			
	8800	PALE	4	S/F	1954.1	1957.1	17.4	90			
	606	PALE	4	S/F	1955.1	1956.5	13.7	49			
	410	PALE	4	S/F	1955.8	1955.8	13.0	22			
	3750	TYKW	29	PBI	2120.0E		230.0D	18.0D	9.0D		
	2000	TYKW	29	PBI	2120.0E		230.0D	16.0D	8.0D		
	9400	TYKW	29	PBI	2120.0E		220.0D	26.0D	13.0D		RAIN
	1000	TYKW	29	PBI	2120.0E		230.0D	8.0D	4.0D		
	410	LEAR	8	S	2310.3	2310.5	.3	48			
	245	LEAR	8	S	2354.6	2355.8	1.4	50			
	245	LEAR	8	S	2357.0	2357.1	.6	400			
30	200	HIRA	44	NS	0017.0E	0329	420.0D	10.0	5.0		WR
	245	LEAR	43	NS	0142.3	0142.5	362.8	93			
	200	GORK	44	NS	0301.0E		302.0D		10.0		
	33	UPIC	43	NS	0558.0		669.2D				
	260	ONDR	43	NS	0813.0	1254.7	352.0D	155.0	6.0		
	208	VORO	44	NS	2200.0E		240.0D		8.0		
	200	HIRA	43	NS	2300.0	0437	600.0D	20.0	5.0		WR
	245	LEAR	43	NS	2302.0	0138.8	654.0D	130			
	606	LEAR	8	S	0005.0	0005.1	.3	20			
	245	LEAR	4	S/F	0045.3	0045.3	149.4	119			
	2840	PEKG	5	S	0119.0	0120.8	10.0	22.0	8.0		
	9395	PEKG	5	S	0119.0	0120.8	10.0	15.4	5.4		
	9400	TYKW	5	S	0119.0	0120.5	3.0	19.0	8.0U		RAIN
	3750	TYKW	45	C	0119.0	0120.6	11.0	28.0	7.0		
	2000	TYKW	45	C	0119.5	0120.7	1.5	9.0	4.0		
	4995	LEAR	8	S	0119.8	0120.6	1.3	28			
	8800	LEAR	4	S/F	0119.8	0120.3	3.8	27			
	4995	PALE	8	S	0119.8	0120.3	.8	30			
	8800	PALE	8	S	0120.1	0120.3	.5	27			
	2695	LEAR	8	S	0120.6	0120.6	.2	07			
	2000	TYKW	29	PBI	0121.0		20.0	2.0	1.0		
	9400	TYKW	29	PBI	0122.0		20.0	6.0	3.0		
	3750	TYKW	29	PBI	0130.0		15.0	3.0	1.5		
	2000	TYKW	5	S	0149.0	0150.0	2.0	3.0	1.0		
	3750	TYKW	5	S	0149.0	0150.0	2.0	3.0	1.0		
	3750	TYKW	45	C	0215.0	0219.9	15.0	12.0	3.0		
	9400	TYKW	21	GRF	0215.0	0230	55.0	8.0	4.0		
	9395	PEKG	3	S	0215.0	0217.9	23.0	26.1	10.2		
	9400	TYKW	45	C	0215.5	0217.7	8.0	31.0	12.0		
	2840	PEKG	45	C	0217.0	0220.7	24.0	9.0	4.0		
	2000	TYKW	45	C	0217.3	0218.2	4.5	63.0	15.0		
	1700	NOBE	1	S	0217.5	0218.4	3.0	33.0			L
	3750	TYKW	30	PBI	0230.0		40.0	2.0	1.0		
	606	LEAR	8	S	0258.8	0259.0	.3	13			
6	2840	PEKG	45	C	0304.0	0306.2	7.0	22.0	5.3		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
30	3750	TYKW	45	C	0305.8	0306.8	2.5	16.0	6.0		
	1000	TYKW	45	C	0306.0	0306.7	5.0	16.0	5.0		
	2695	LEAR	8	S	0306.0	0306.1	1.1	20			
	606	LEAR	8	S	0306.1	0306.8	.7	31			
	1415	LEAR	4	S/F	0306.1	0306.8	2.7	38			
	4995	MANI	1	S	0306.3	0307.0	1.3	7.7	2.6		
	1415	MANI	4	S/F	0306.6	0307.3	2.5	22.2	7.4		
	2695	MANI	4	S/F	0306.5	0307.3	1.3	14.0	4.7		
	4995	LEAR	8	S	0306.6	0306.8	.2	07			
	9395	PEKG	3	S	0313.0	0319	7.0	20.1	10.1		
	2950	GORK	20	GRF	0325.2	0331.0	318.0	14.0			
	9400	TYKW	5	S	0329.0	0331.0	5.0	17.0	9.0		
	3750	TYKW	5	S	0328.0	0331.1	6.0	21.0	10.0		
	2000	TYKW	20	GRF	0328.0	0348	50.0	3.0	1.5		
	9395	PEKG	3	S	0329.0	0331	13.6	14.0	5.0		
	8800	MANI	3	S	0329.0	0331.6	4.3	28.6	9.5		
	4995	MANI	3	S	0329.2	0331.6	4.0	38.4	12.8		
	8800	LEAR	4	S/F	0329.5	0330.8	5.8	26			
	4995	LEAR	4	S/F	0329.5	0331.0	6.6	27			
	2695	LEAR	4	S/F	0330.0	0330.3	2.1	10			
	4995	PALE	8	S	0330.1	0331.1	1.5	29			
	9400	TYKW	30	PBI	0333.0		80.0	9.0	4.0		
	3750	TYKW	30	PBI	0334.0		35.0	7.0	3.5		
	1000	TYKW	5	S	0336.0	0336.4	1.0	2.0	.5		
	3750	TYKW	5	S	0403.5	0404.0	1.5	3.0	1.0		
	9400	TYKW	5	S	0403.7	0404.0	1.0	8.0	2.0		
	2000	TYKW	20	GRF	0420.0	0430	70.0	2.0	1.0		
	3750	TYKW	21	GRF	0425.0	0444	70.0	3.0	1.0		
	3750	TYKW	5	S	0501.0	0501.7	2.0	3.0	1.5		
	3750	TYKW	20	GRF	0550.0	0603 U	50.0	6.0U	3.0D		
	2000	TYKW	20	GRF	0550.0	0604	50.0	2.0	1.0		
	9400	TYKW	20	GRF	0550.0	0604 U	50.0	7.0U	3.0D		
	3000	POTS	42	SER	0659.5	0706.2	7.1	14.0			
	1470	POTS	42	SER	0659.5	0706.0	7.1	4.5			
	9500	POTS	42	SER	0659.5	0706.0	6.8	12.0			
	9500	POTS	1	S	0827.6	0828.0	.9	7.6			
	2695	ATHN	4	S/F	0908.3	0910.3	3.7D	16			
	2950	GORK	21	GRF	0908.4	0909.0	34.0E	4.0	2.0		
	3000	POTS	4	S/F	0908.4	0910.2	7.4	20.0			
	9500	POTS	4	S/F	0908.5	0909.8	4.5	68.0			
	4995	LEAR	4	S/F	0908.5	0909.8	3.5	80			
	8800	LEAR	4	S/F	0908.6	0909.8	3.9	100			
	4995	ATHN	4	S/F	0908.6	0909.8	5.7	76			
	9100	GORK	4	S/F	0908.7	0909.9	1.9	105.0			
	5200	BERN	4		0908.8	0910.0	4.0	70.0			ONLY PAPER REC
	3200	BERN	4		0908.8	0910.0	4.0	28.0			ONLY PAPER REC
	2695	LEAR	4	S/F	0908.8	0910.3	3.0	23			
	15400	LEAR	4	S/F	0908.8	0910.1	3.2	72			
	2840	PEKG	45	C	0909.0	0910.9	3.0	18.3			
	9395	PEKG	45	C	0909.0	0910	3.0	61.2			
	8800	ATHN	4	S/F	0909.1	0909.8	5.2	76			
	4995	MANI	3	S	0909.5	0910.5	2.0	48.0	16.0		
	8800	MANI	3	S	0909.5	0910.5	2.2	97.2	32.4		
	1470	POTS	1	S	0909.5	0910.7	2.5	5.8			
	2650	DWIN	1	S	0910.0	0910	2.0	20.0	5.0		
	9100	GORK	29	PBI	0910.6	0910.6	32.0E	27.0			
	204	IZMI	42	SER	1109.0	1115.5	42.5	150.0			
	113	POTS	4	S/F	1115.1	1115.2	.2	100.0	25.0		III
	3000	POTS	3	S	1137.0	1138.7	8.0	139.0			
	2650	DWIN	45	C	1137.0	1137	4.0	140.0	50.0		
	3200	BERN	4		1137.0	1138.7	4.0	110.0			ONLY PAPER REC
	5200	BERN	4		1137.0	1138.7	4.0	203.0			ONLY PAPER REC
	2695	SGMR	4	S/F	1137.0	1139.1	4.8D	139			
	2800	OTTA	240	AR	1137.0	1142	5.0	13.0			
	4995	SGMR	4	S/F	1137.1	1139.0	4.5D	200			
	8800	SGMR	4	S/F	1137.1	1139.1	3.5D	210			
	1470	POTS	28	PRE	1137.2	1139.4	13.0	45.0			
	9500	POTS	28	PRE	1137.5	1138.5	21.0	163.0			
	9400	HUAN	4	S/F	1137.8	1139.0	2.0	187.3	73.4		R
	7000	SAOP	4	S/F	1137.8	1139.1	2.2	249.0	124.0		22R
	1415	SGMR	4	S/F	1137.8	1139.0	2.5D	90			
	2800	OTTA	3	S	1138.0	1139	3.0	138.0	46.0		
	8800	ATHN	4	S/F	1138.1	1140.1	19.0	180			
	930	BORD	46	C	1138.2	1138.7	2.0	92.0	4.0		
	3000	IZMI	5	S	1138.3	1139.0	1.6	167.0	121.0		
	4995	ATHN	4	S/F	1138.3	1140.1	23.7	300			
	1415	ATHN	4	S/F	1138.3	1140.3	5.3D	37			
	808	ONDR	2	S/F	1138.5	1139.8	2.5	38.0	5.0		
	15400	SGMR	8	S	1138.6	1139.0	2.0	92			
	810	KRAK	41	F	1139.2	1139.8	1.2	88.0			
	9400	HUAN	30	PBI	1139.8	1139.8	28.9	34.6	14.4		0
	7000	SAOP	29	PBI	1140.0	1140.3	83.6	44.0	22.0		
	113	POTS	42	SER	1140.6	1151.0	20.0	280.0	1.0		III
	9500	POTS	4	S/F	1150.0	1151.3	4.2	28.0			
31	3000	POTS	1	S	1150.5	1151.1	1.0	4.4			

SOLAR RADIO EMISSION
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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
30	1470	POTS	1	S	1150.8	1151.0	.7	2.0			
	9400	HUAN	2	S/F	1150.8	1151.4	1.4	10.9	4.8		0
	536	ONDR	2	S/F	1150.8	1151.3	1.0	18.0			
	430	KRAK	8	S	1151.9	1152.1	.6	120.0			
	2695	SGMR	8	S	1254.6	1255.1	2.0D	28			
	4995	SGMR	8	S	1254.8	1255.1	1.8	08			
	9500	POTS	1	S	1254.8	1256.0	2.2	3.7			
	1470	POTS	28	PRE	1255.0	1255.3	10.0	7.3			
	3000	POTS	4	S/F	1255.0	1255.3	2.6	21.0			
	2650	DWIN	1	S	1255.0	1255	1.0	30.0	10.0		
	2800	OTTA	3	S	1255.0	1255.2	2.0	26.0	7.0		
	245	SGMR	47	GB	1255.0	1255.3	1.1D	510			
	1415	SGMR	8	S	1255.1	1255.3	1.0D	09			
	234	POTS	4	S/F	1255.1	1255.2	.6	720.0	150.0		III
	2800	OTTA	21	GRF	1320.0	1347	120.0	7.4	3.7		
	3000	POTS	27	RF	1330.0	1347	50.0	9.6			
	9500	POTS	27	RF	1330.0	1342	72.0	11.0			
	9400	HUAN	21	GRF	1331.5	1340.4	38.3	10.9	6.8		0
	1470	POTS	27	RF	1333.0	1347	64.0	4.2			
	9500	POTS	3	S	1336.6	1338.7	2.9		21.0		
	1470	POTS	3	S	1337.0	1337.5	1.5	7.3			
	3000	POTS	4	S/F	1337.0	1339.2	2.8	9.6			
	7000	SAOP	20	GRF	1337.2	1338.8	4.5	20.0	10.0		7L
	1415	SGMR	8	S	1337.6	1337.8	.4D	09			
	9400	HUAN	2	S/F	1337.8	1338.7	1.6	12.7	9.8		0
	8800	SGMR	8	S	1338.0	1338.6	1.8	11			
	4995	SGMR	8	S	1338.0	1339.0	1.6D	11			
	8800	ATHN	8	S	1338.1	1338.5	1.5	29			
	4995	ATHN	8	S	1338.1	1339.1	1.5	20			
	1470	POTS	42	SER	1428.1	1428.5	4.4	6.3			
	9500	POTS	42	SER	1428.2	1428.5	4.4	9.5			
	3000	POTS	42	SER	1428.3	1431.5	3.3	5.3			
	1470	POTS	1	S	1443.5	1444.6	2.4	4.2			
	3000	POTS	4	S/F	1444.0	1444.5	1.8	15.0			
	2800	OTTA	3	S	1444.0	1444.7	2.0	13.0	4.4		
	9500	POTS	1	S	1444.5	1445.0	1.2	3.8			
	2650	DWIN	1	S	1445.0	1445	2.0	20.0	5.0		
	930	BORD	8	S	1448.5	1448.5	.1	23.0	2.0		
	606	SGMR	4	S/F	1521.0	1523.1	3.1	20			
	930	BORD	41	F	1523.0	1523.2	1.2	58.0	2.0		
	410	SGMR	8	S	1523.1	1523.3	.5D	53			
	7000	SAOP	1	S	1544.4	1545.0	1.8	7.0	3.0		0
	245	SGMR	4	S/F	1648.8	1655.1	7.2	100			
	15400	PALE	8	S	1722.6	1722.8	.4	32			
	8800	PALE	8	S	1722.6	1722.8	.4	19			
	1415	PALE	8	S	1729.0	1729.1	1.1	13			
	15400	PALE	8	S	1729.0	1729.3	1.1	26			
	2800	OTTA	8	S	1901.9	1802.1	.5	9.4			
	2800	OTTA	20	GRF	1910.0	1820	20.0	3.2			
	7000	SAOP	1	S	1825.3	1826.3	2.7	9.0	4.0		0
	2695	SGMR	4	S/F	1848.8	1849.6	3.3D	119			
	2800	OTTA	3	S	1849.0	1849.8	3.0	94.0	25.0		
	2800	OTTA	21	GRF	1849.0	1914	65.0	7.8	3.9		
	1415	SGMR	4	S/F	1849.1	1850.0	2.5D	25			
	4995	SGMR	4	S/F	1849.3	1849.8	2.2D	59			
	2695	PALE	8	S	1849.3	1849.8	1.5	110			
	4995	PALE	8	S	1849.5	1849.8	1.1	40			
	8800	SGMR	8	S	1849.5	1850.3	1.8	13			
	1415	PALE	8	S	1849.6	1850.0	1.0	33			
	8800	PALE	8	S	1849.8	1850.0	.3	20			
	15400	PALE	4	S/F	1850.5	1851.6	3.6	30			
	245	PALE	47	GB	1850.8	1850.8	3.3	31			
	410	PALE	4	S/F	1913.8	1915.1	3.0	20			
	2800	OTTA	8	S	1951.2	1951.2	.1	15.6			0
	200	HIRA	46	C	2125.6	2126.3	1.6	1440.0	210.0		WL
	100	HIRA	46	C	2126.3	2126.3	1.1	535.0	85.0		
	1000	TYKW	42	SER	2202.0	2203.8	2.0	77.0	3.0		
	2800	OTTA	40	F	2202.0	2203.5	3.0	6.8			
	2000	TYKW	42	SER	2203.0	2203.8	1.5	57.0	2.0		
	3750	TYKW	21	GRF	2300.0	2335	14.0D	10.0	5.0		
	1000	TYKW	8	S	2304.4	2304.5	.3	16.0	4.0		
	2000	TYKW	21	GRF	2305.0	0002	13.0D	5.0	2.5		
	3750	TYKW	45	C	2310.0	2312.5	10.0	5.0	2.5		
	9400	TYKW	21	GRF	2310.0	2330	12.0D	8.0	4.0		
	2695	PENT	20	GRF	2310.0	0005	7.5.0	4.2	2.1		
	1000	TYKW	5	S	2343.0	2344	3.0	2.5	1.0		
	2000	TYKW	45	C	2343.3	2344.2	1.2	8.0	2.0		
	9400	TYKW	45	C	2357.0	0008.0	20.0	8.0	2.0D		
	3750	TYKW	45	C	2357.0	2358.1	20.0	12.0	2.0		
31	200	GORK	44	NS	0300.0E		560.0D		10.0		
	33	UPIC	43	NS	0516.5		733.5D				
	260	ONDR	44	NS	0620.0E		476.0D	98.0	10.0		
	245	PALE	43	NS	1642.0	0118.0	710.0D	280			
	208	VORO	44	NS	2200.0E		240.0D		10.0		

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DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
31	245	LEAR	43	NS	2251.0	0415.8	666.00	160			
	245	LEAR	8	S	0007.1	0007.3	.4	180			
	1000	TYKW	5	S	0048.0	0049.6	4.0	3.0	1.0		
	3750	TYKW	45	C	0055.0	0108.0	17.0	10.0	2.0		
	9400	TYKW	5	S	0056.0	0058	5.0	6.0	3.0		
	2000	TYKW	5	S	0058.2	0058.4	.5	4.0	1.0		
	245	LEAR	8	S	0103.6	0105.0	1.7	180			
	245	PALE	47	GB	0103.8	0105.0	11.5	220			
	1000	TYKW	45	C	0104.0	0109.2	10.0	110.0	3.0		
	200	HIRA	42	SER	0104.0	0112.1	14.0	200.0			0
	2000	TYKW	5	S	0104.5	0105.2	2.5	4.0	1.5		
	100	HIRA	42	SER	0104.6	0105.2	14.0	430.0			0
	2000	TYKW	45	C	0107.5	0109.1	2.5	13.0	2.0		
	606	LEAR	4	S/F	0107.6	0109.0	3.5	96			
	1415	LEAR	8	S	0107.6	0109.1	1.5	54			
	8800	LEAR	8	S	0107.8	0108.0	.3	21			
	4995	LEAR	8	S	0107.8	0108.0	.2	18			
	245	LEAR	8	S	0107.8	0108.1	.5	200			
	9400	TYKW	8	S	0107.9	0108.0	.3	11.0	3.0		
	500	HIRA	41	F	0108.8	0108.9	3.6	78.0			WL
	410	LEAR	4	S/F	0108.8	0109.1	5.0	31			
	245	LEAR	8	S	0111.6	0112.0	1.5	230			
	245	PALE	8	S	0138.3	0138.6	.5	200			
	410	PALE	8	S	0205.3	0205.5	.3	160			
	9400	TYKW	20	GRF	0220.0	0325	120.0	4.0	2.0		
	3750	TYKW	5	S	0223.0	0228.5	8.0	10.0	5.0		
	2000	TYKW	20	GRF	0227.0	0228	110.0	3.0	1.5		
	4995	PALE	4	S/F	0227.1	0228.5	2.5	23			
	1415	PALE	8	S	0230.1	0230.5	2.0	13			
	3750	TYKW	29	PRI	0231.0		110.0	5.0	2.5		
	410	LEAR	8	S	0354.0	0354.1	.5	37			
	3750	TYKW	20	GRF	0445.0	0500	55.0	3.0	1.5		
	9400	TYKW	21	GRF	0445.0	0500	55.0	4.0	2.0		
	2000	TYKW	20	GRF	0445.0	0500	55.0	2.0	1.0		
	9100	GORK	22	GRF	0514.9	0515.8	8.9	10.0			
	9400	TYKW	5	S	0515.0	0515.7	3.0	15.0	4.0		
	8800	LEAR	4	S/F	0515.3	0515.6	2.3	15			
	15400	LEAR	8	S	0515.5	0515.6	.6	11			
	245	LEAR	8	S	0538.3	0538.5	.3	26			
	410	LEAR	8	S	0538.3	0538.5	.3	38			
	410	LEAR	8	S	0543.5	0543.6	.3	36			
	9100	GORK	20	GRF	0545.0	0550.2	37.5	11.0			
	3750	TYKW	5	S	0545.8	0546.1	1.0	7.0	3.0		
	2000	TYKW	5	S	0545.8	0546.2	2.0	4.0	1.5		
	2950	GORK	1	S	0545.9	0546.1	1.2	7.9	3.8		
	9400	TYKW	45	C	0546.0	0550.3	6.00	12.0	3.00		INTERFERENCE
	3100	CRIM	1	S	0546.0	0546.5	1.0	8.0	3.0		
	650	GORK	4	S/F	0546.6	0549.60	3.6	96.0			
	2000	TYKW	45	C	0548.0	0550.8	5.0	8.0	2.0		
	606	MANI	4	S/F	0548.5	0550.2	2.0	53.1	17.7		
	606	LEAR	4	S/F	0549.0	0549.8	2.1	130			
	1000	TYKW	42	SER	0549.0	0550.2	1.5	57.0	3.0		
	3750	TYKW	45	C	0549.0	0550.8	20.0	15.0	2.0		
	410	LEAR	8	S	0549.1	0549.8	2.0	110			
	245	LEAR	4	S/F	0549.1	0550.8	2.7	130			
	8800	LEAR	4	S/F	0549.1	0550.8	2.7	09			
	4995	LEAR	4	S/F	0549.3	0550.8	2.5	11			
	15400	LEAR	8	S	0549.6	0550.1	1.9	07			
	1415	MANI	2	S/F	0549.7	0550.0	1.6	9.8	3.3		
	1415	LEAR	8	S	0549.8	0549.8	.3	11			
	113	POTS	4	S/F	0550.0	0550.8	1.6	250.0	35.0		III
	234	POTS	4	S/F	0550.0	0550.6	1.0	100.0	15.0		III
	200	GORK	8	S	0550.2	0550.8	1.4	330.0			
	100	GORK			0550.2	0551.1		9900.0			
	100	GORK	46	C	0550.2	0550.4	1.3	80300.0			
	2695	LEAR	8	S	0550.3	0550.8	1.5	16			
	2950	GORK	1	S	0550.4	0550.8	1.7	10.0	5.0		
	3100	CRIM	1	S	0550.4	0551.0	2.0	13.0	4.0		
	4995	MANI	3	S	0550.5	0550.8	1.5	22.6	7.5		
	2695	MANI	3	S	0550.5	0550.8	1.5	26.0	8.7		
	2000	TYKW	29	PRI	0553.0		17.0	2.0	1.0		
	3000	POTS	28	PRE	0721.3	0725.8	49.0	16.0			
	2840	PEKG	20	GRF	0721.5	0726	23.5	8.0			
	9100	GORK	46	C	0721.8	0723.4	4.7	38.0			
	9500	POTS	28	PRE	0721.8	0725.6	43.0	58.0			
	9100	GORK			0721.8	0726.0		74.0			
	4995	MANI	4	S/F	0721.8	0726.0	6.2	65.6	21.9		
	9400	TYKW	45	C	0722.0	0725.7	5.0	68.0	15.0		
	3750	TYKW	45	C	0722.0	0725.8	11.0	31.0	11.0		
	9395	PEKG	45	C	0722.0	0725.8	30.0	61.0	9.0		
	3100	CRIM	40	F	0722.0	0725.5	9.0	15.0	5.0		
	4995	LEAR	47	GB	0722.1	0723.6	6.4	39			
	15400	LEAR	47	GB	0722.5	0723.3	4.6	57			
	6100	KISV	45	C	0722.5	0723.8	3.0	22.0			
	2695	LEAR	4	S/F	0722.6	0723.3	5.7	10			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
31	2695	ATHN	4 S/F	0722.6	0723.5	4.5D	13			
	8800	LEAR	47 GB	0722.8	0723.3	5.0	38			
	4995	ATHN	4 S/F	0722.8	0725.8	13.8	36			0
	1700	NORE	7 C	0723.0	0723.4	45.0	47.0			
	2000	TYKW	45 C	0723.0	0723.6	2.0	30.0	5.0		
	2950	GORK	20 GRF	0723.0	0723.3	28.3	7.9	3.8		
	6100	KISV	8 S	0725.3	0725.8	2.0	50.0			
	8800	MANI	3 S	0725.7	0726.0	1.3	49.6	16.4		
	9100	GORK	30 PBI	0726.5	0726.5	266.0	16.0			
	9400	TYKW	29 PBI	0727.0		40.0	8.0	4.0		
	3750	TYKW	29 PBI	0733.0		35.0	6.0	3.0		
	3100	CRIM	20 GRF	0821.0	0831.0	45.0	6.0	2.0		
	430	KRAK	40 F	0911.3	0911.4	1.5	29.0			
	410	LEAR	8 S	0911.6	0911.8	1.0	16			
	536	ONDR	3 S	0911.7	0911.7	.3	2.2			
	1470	POTS	28 PRE	0952.2	0957.5	26.0	54.0			
	9500	POTS	4 S/F	0952.6	0958.0	9.9	99.0			
	3000	POTS	4 S/F	0953.0	0957.9	13.0	45.0			
	430	KRAK	8 S	0953.5	0954.0	.5	64.0			
	536	ONDR	45 C	0953.7	0957.9	7.0	124.0	10.0		
	810	KRAK	8 S	0953.8	0954.0	.3	39.0			
	6100	KISV	1 S	0955.5	0955.8	.5	6.0			
	430	KRAK	4 S/F	0955.7	0957.5	5.0	140.0	7.0		
	810	KRAK	4 S/F	0955.7	0957.5	5.0	90.0	18.0		
	430	KRAK		0955.7	0959.7		180.0			ONLY PAPER REC
	5200	BERN	4	0955.7	0957.3	5.0	38.0			ONLY PAPER REC
	3200	BERN	4	0955.7	0957.5	5.0	41.0			
	245	LEAR	47 GB	0955.8	0956.0U	.2D	23.0U			
	410	LEAR	8 S	0955.8	0956.0U	.2D	10 U			
	9100	GORK	46 C	0955.8	0956.3	3.7	34.0			
	9100	GORK		0955.8	0957.8		106.0			
	950	GORK	4 S/F	0955.8	0957.8	5.2	128.0			
	650	GORK	46 C	0955.8	0957.8	4.6	150.0			
	650	GORK		0955.8	1000.2		60.0			
	100	GORK	41 F	0955.9	0956.0	5.0	40.0D			
	100	GORK		0955.9	0958.0		40.0D			
	200	GORK	46 C	0956.0	0956.2	3.6	80.0D			
	200	GORK		0956.0	0957.9		80.0D			
	6100	KISV	45 C	0956.0	0957.2	2.5	26.0			
	2650	DWIN	2 S/F	0956.0	0958	3.0	40.0	10.0		
	930	BORD	46 C	0956.0	0957.8	5.0	110.0	12.0		
	3100	CRIM	3 S	0956.0	0957.0	4.0	36.0	12.0		
	2950	GORK	3 S	0957.1	0958.1	3.0	38.0	19.0		
	113	POTS	4 S/F	0957.9	0958.0	.8	120.0	10.0		III
	950	GORK	29 PBI	1001.0	1001.2	12.7E	14.0			
	234	POTS	4 S/F	1043.6	1043.9	.4	120.0	15.0		III
	1470	POTS	1 S	1131.4	1132.9	3.1	4.0			
	2800	OTTA	240 R	1255.0	1320	25.0	6.8	4.6		
	2800	OTTA	21 GRF	1340.0	1800	390.0	18.6			0
	9400	HUAN	20 GRF	1344.4	1415.0	85.0	18.1	13.0		ONLY PAPER REC
	3200	BERN	3	1349.5	1354.0	8.0	18.0			ONLY PAPER REC
	5200	BERN	3	1349.5	1354.0	8.0	30.0			
	3000	POTS	4 S/F	1350.0	1354.0	10.0	16.0			
	9500	POTS	1 S	1350.2	1355.4	7.5	9.2			
	113	POTS	4 S/F	1350.4	1350.5	1.4	250.0	10.0		III
	4995	SGMR	4 S/F	1350.5	1354.1	6.3D	39			
	245	SGMR	4 S/F	1350.8	1351.6	3.2D	370			
	2800	OTTA	3 S	1351.0	1354.2	7.0	11.2	3.8		
	234	POTS	41 F	1351.2	1351.6	2.2	1050.0	7.0		III
	410	SGMR	8 S	1351.5	1351.6U	.1D	59 U			
	8800	SGMR	4 S/F	1353.0	1354.3	3.6	21			
	2695	SGMR	4 S/F	1353.0	1354.3	3.3D	11			
	1470	POTS	1 S	1355.0	1359.6	6.5	3.1			
	9400	HUAN	1 S	1540.1	1540.6	2.1	12.6	7.2		0
	410	SGMR	8 S	1540.3	1540.6	.5D	37			
	245	SGMR	8 S	1540.3	1540.6	.5D	75			
	8800	SGMR	4 S/F	1540.3	1540.6	2.2	18			
	2800	OTTA	4 S/F	1748.2	1750	4.0	31.6	15.8		
	2695	SGMR	4 S/F	1748.3	1749.8	4.2D	31			
	1415	PALE	4 S/F	1748.3	1750.1	4.8	74			
	1415	SGMR	4 S/F	1748.3	1750.1	4.3D	59			
	9400	HUAN	21 GRF	1749.0	1820.4	67.0	14.5	6.0		0
	4995	SGMR	8 S	1749.8	1750.3	.8	13			L
	9400	HUAN	1 S	1807.2	1808.1	2.1	10.8	4.7		
	2800	OTTA	1 S	1928.3	1929.2	2.0	6.4	2.8		
	2800	OTTA	1 S	1949.5	1950.5	1.5	2.2	1.1		
	8800	PALE	8 S	2010.1	2010.3	.5	30			
	8800	PALE	8 S	2014.8	2015.0	.7	28			
	2800	OTTA	20 GRF	2030.0	2036	25.0	3.0	2.0		
	8800	PALE	8 S	2058.5	2058.6	.3	70			
	15400	PALE	8 S	2059.1	2059.1	.2	21			
	15400	PALE	4 S/F	2103.6	2104.6	2.2	28			
	2000	TYKW	45 C	2139.0	2139.3	1.0	7.0	1.5		
	2800	OTTA	1 S	2213.5	2214	3.0	4.0	1.8		
	2000	TYKW	5 S	2220.7	2220.9	.5	7.0	2.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1981

DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
31	2000	TYKW	45 C	2239.0	2242.4	6.0	10.0	3.0		
	1000	TYKW	45 C	2240.0	2242.6	4.5	35.0	2.5		
	1415	PALE	4 S/F	2241.3	2242.5	2.2	30			
	606	PALE	8 S	2242.3	2242.6	1.3	17			
	3750	TYKW	5 S	2341.0	2341.6	3.0	7.0	1.5		
	2000	TYKW	5 S	2341.3	2341.7	1.0	4.0	1.5		

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Izmiran
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
YUNN = Yunnan
TRST = Trieste
UPIC = Upice
VORD = Voroshilov

Explanation of Type Code:

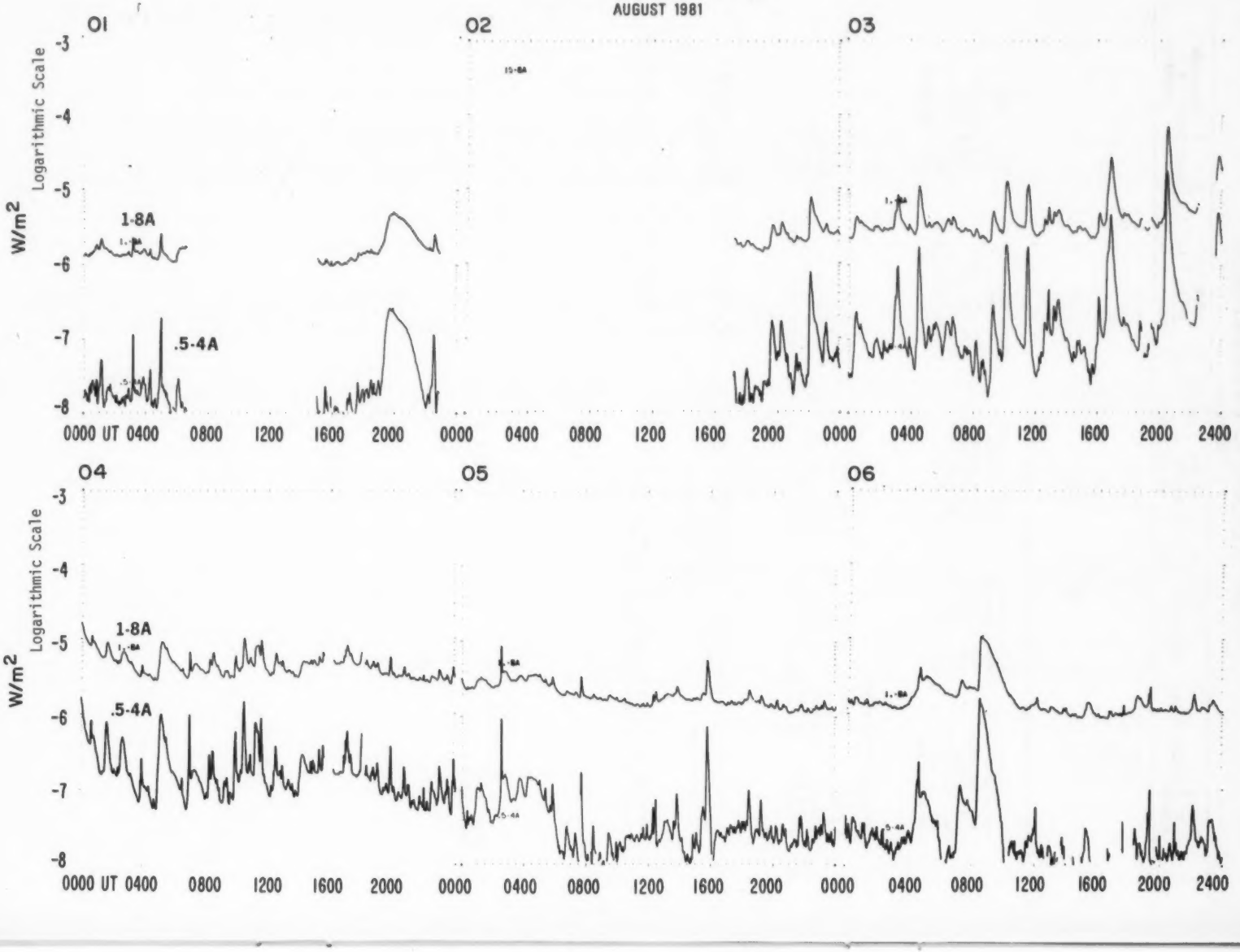
1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

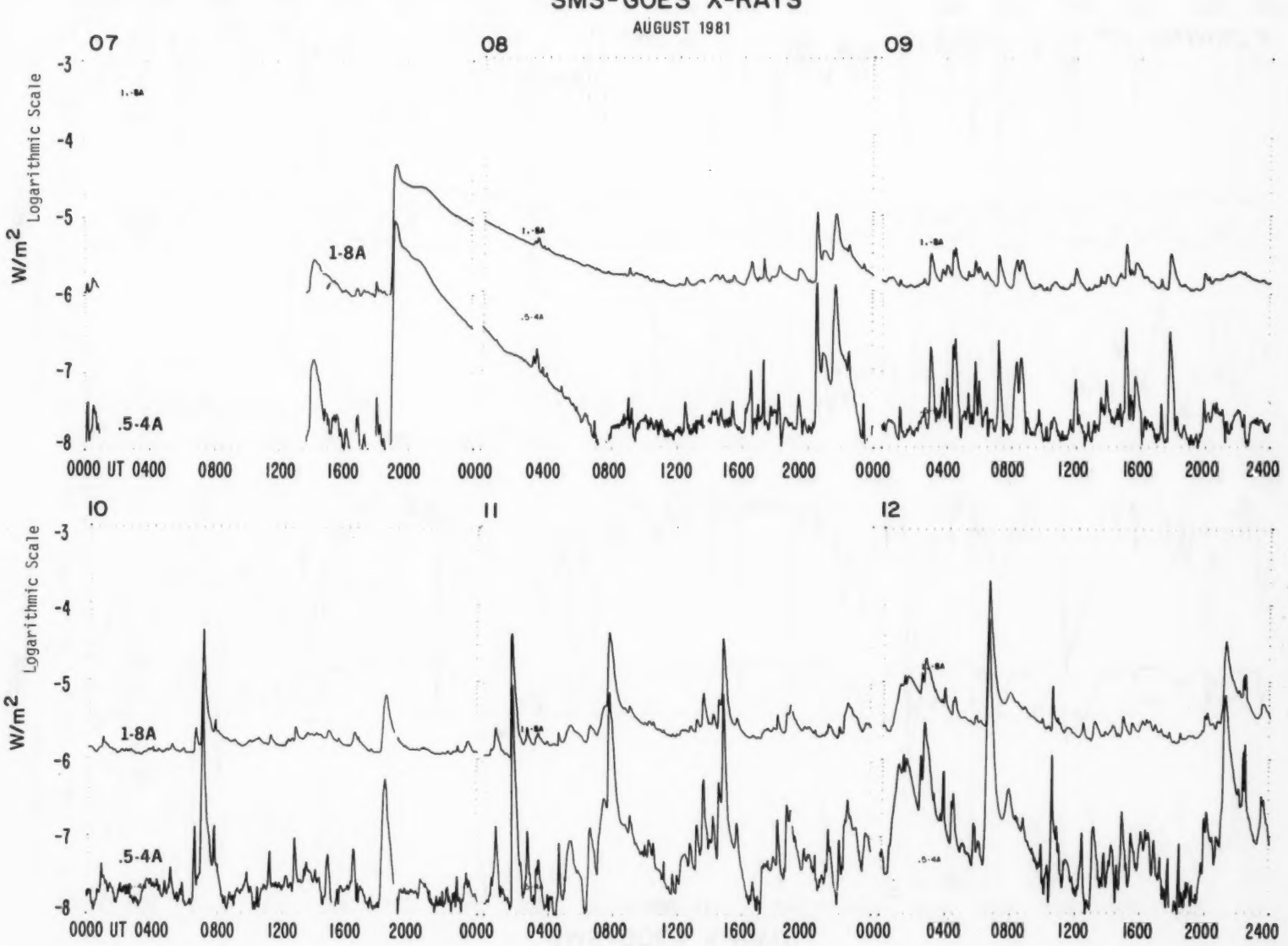
1A Simple 1A
2A Simple 1AF
3A Simple 2A
4A Simple 2AF
21A Simple 3A GRF
240 Rise only
240F Rise only F
24P Post Rise
24PF Post Rise F
26A Fall A
260 Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A P.B. Decrease A
32A Absorption A
46F Complex F

Under the "Remarks" column heading, RIF stands for Relative Increase in Flux. The expression "RIF 469.2", for example, denotes a flux increase of 469.2% above background.

SMS-GOES X-RAYS

AUGUST 1981




SMS-GOES X-RAYS
AUGUST 1981
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08
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11
12
W/m2
Logarithmic Scale
-3
-4
-5
-6
-7
-8
1-8A
.5-4A
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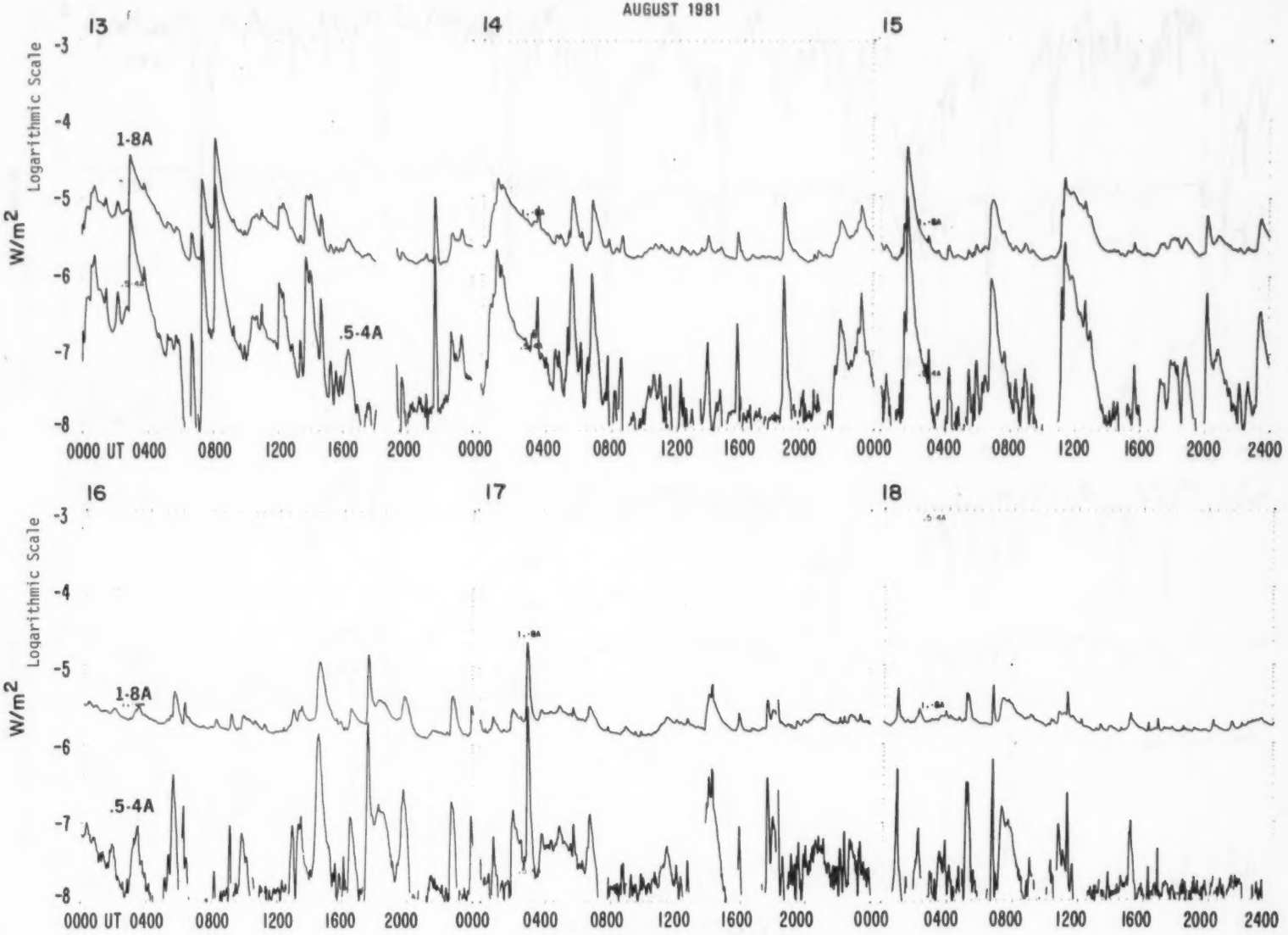
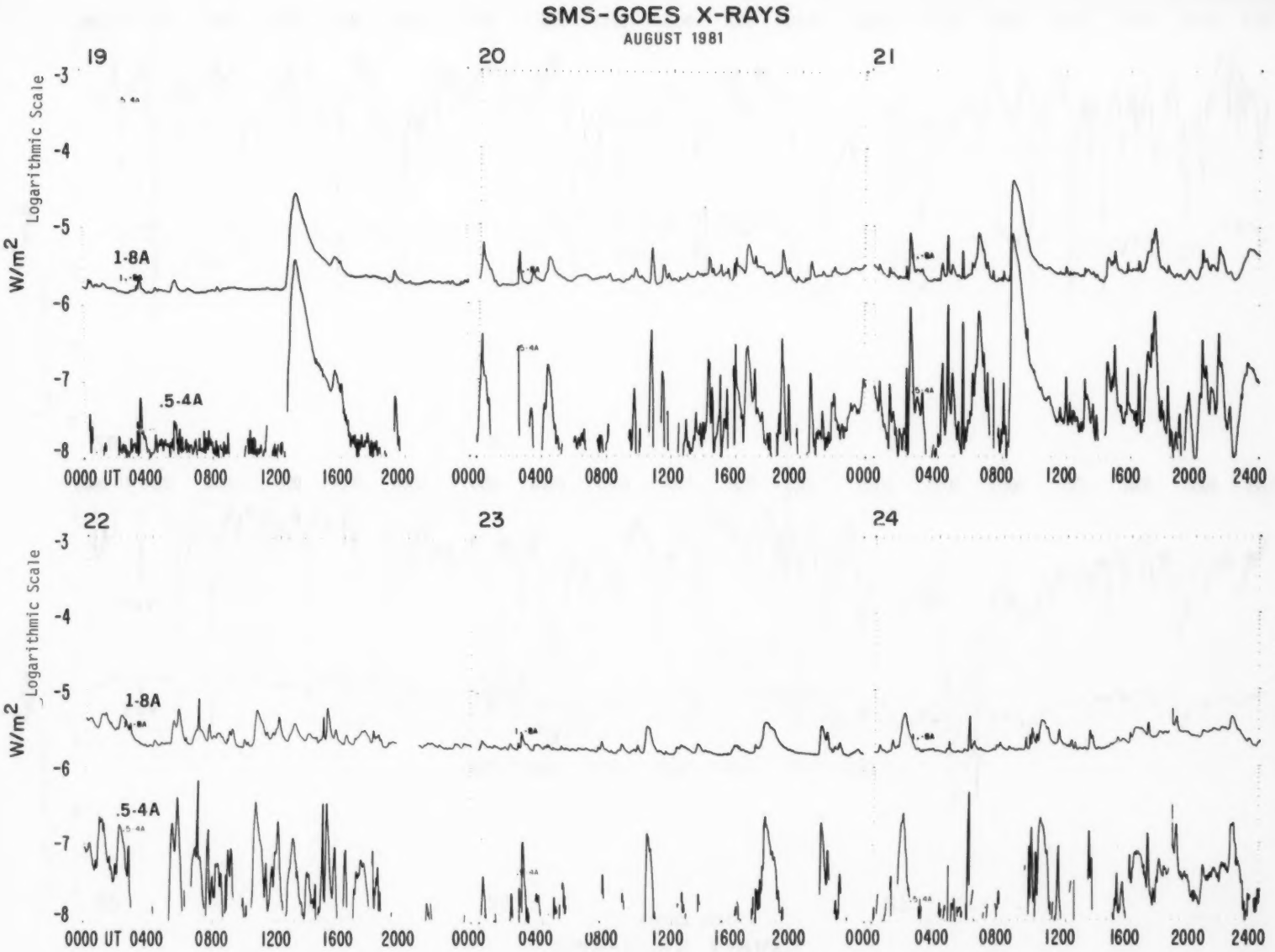
SMS-GOES X-RAYS

AUGUST 1981



SMS-GOES X-RAYS

AUGUST 1981


SMS-GOES X-RAYS
AUGUST 1981
19
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Logarithmic Scale
W/m2
1-8A
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-5
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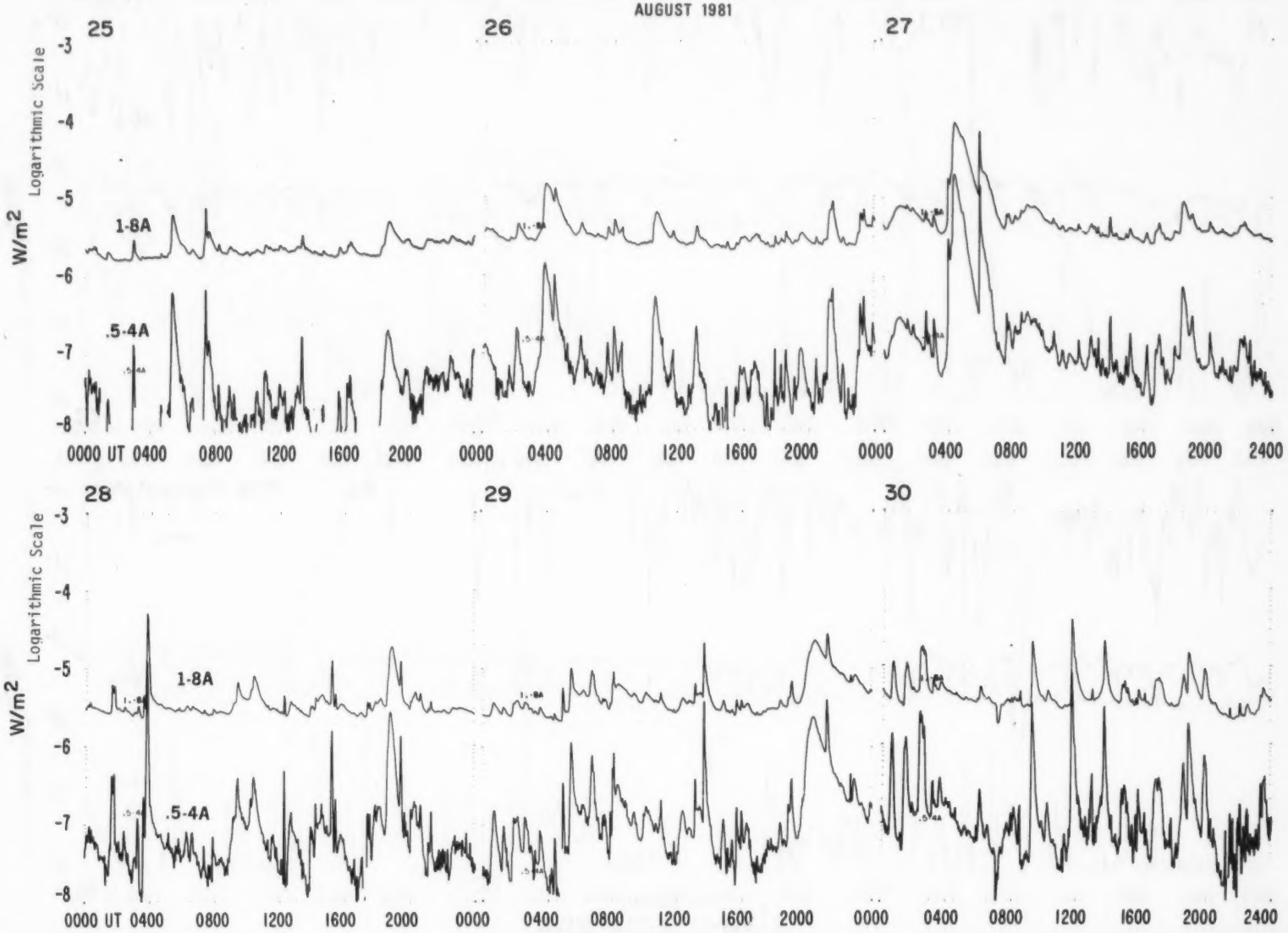
0000 UT 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 2400

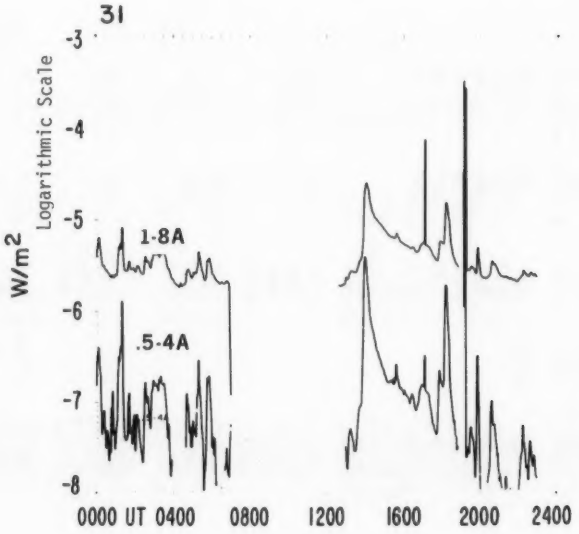
SMS-GOES X-RAYS

AUGUST 1981



SMS-GOES X-RAYS

AUGUST 1981



MASS EJECTIONS FROM THE SUN

August 1981

Station	Day	Observed UT Start	Max	End	Location RA°	R/R_o	Wavelength	Type of Event
WEND	Aug 01	0809E		1229D	267	1.0	H-alpha	A
WEND	Aug 01	0933	0937	0943	268	0.99-1.05	H-alpha	S
LVOV	Aug 01	1325	1335	1347	258	1.00	H-alpha	S
KHAR	Aug 03	0820		0830	096	1.00	H-alpha	S
KHAR	Aug 03	0820	0823	0830	098	1.00	H-alpha	S
KHAR	Aug 03	0848		0903	297	0.64	H-alpha	S
VORO	Aug 03	2326E	2326	2356	090	1.0	H-alpha	S
VORO	Aug 03	2338	2339	2348	099	1.0	H-alpha	S
VORO	Aug 04	0039	0042	0138D	099	1.0	H-alpha	S
WEND	Aug 04	0656	0707	0714	100	0.96-1.08	H-alpha	S
ABST	Aug 04	0949	0949	0956D	256	1.00	H-alpha	Q
KHAR	Aug 06	0810		0821	286	0.82	H-alpha	S
WEND	Aug 06	0844	0852 0923	0946	290	1.0	H-alpha	A
KHAR	Aug 06	0925	0927	0945	290	1.00	H-alpha	S
LVOV	Aug 06	1250	1255	1307	073	0.98	H-alpha	S
VORO	Aug 07	0035	0038	0058	119	0.603	H-alpha	S
KHAR	Aug 07	0800		0807	113	0.50	H-alpha	S
KHAR	Aug 07	0820		0850	064	0.86	H-alpha	S
KHAR	Aug 07	0837		0858	264	1.00	H-alpha	S
KHAR	Aug 07	0858		1030	064	0.86	H-alpha	S
KHAR	Aug 07	0940		1008	264	1.00	H-alpha	S
HARV	Aug 07	1907		2128			Meter	IV
PALE	Aug 07	1926.9		2231.0			Meter	IV
HARV	Aug 07	2142		2220			Meter	IV Pulsations
KHAR	Aug 08	0851		0914	072	0.86	H-alpha	S
KHAR	Aug 08	0940		0958	072	0.86	H-alpha	S
HARV	Aug 08	1250		1451			Meter	IV
HARV	Aug 08	1451		2240			Meter	IV
KHAR	Aug 09	0808		1100	291	0.51	H-alpha	S
KHAR	Aug 09	0852		0902	052	0.58	H-alpha	S
HARV	Aug 09	1555		2250			Meter	IV
CULG	Aug 11	0151		0200			Meter	II
ABST	Aug 11	0642	0653	0707D	256	0.60	H-alpha	S
WEIS	Aug 11	0751.2		0759.6			50-150	II Harmonic
LEAR	Aug 11	0755.1		0800.1			Meter	II
ABST	Aug 12	0408E	0402U	0452	103	1.00	H-alpha	A
CULG	Aug 12	0634.5		0636			Meter	II
KHAR	Aug 12	0954		1008	101	1.00	H-alpha	S
KHAR	Aug 12	1002		1020	228	0.59	H-alpha	S
KHAR	Aug 12	1012		1040	111	1.00	H-alpha	S
KHAR	Aug 12	1021		1052	231	0.64	H-alpha	S
KHAR	Aug 12	1042		1052	228	0.54	H-alpha	S
KHAR	Aug 12	1048		1052	078	1.00	H-alpha	S
WEND	Aug 13	1058	1103	1109	100	1.0	H-alpha	S
LVOV	Aug 13	1233	1240	1248	100	1.00	H-alpha	S
WEND	Aug 13	1234	1242	1247	100	1.0	H-alpha	S
WEND	Aug 13	1359E		1426	092	1.0-1.06	H-alpha	A
LEAR	Aug 14	0144.4		0226.6			Meter	IV
WEND	Aug 14	0637	0658	0717	109	1.0-1.10	H-alpha	SP
KHAR	Aug 14	0820		0856	303	1.00	H-alpha	S
KHAR	Aug 14	0834	0856	1053	303-310	0.87	H-alpha	S
WEND	Aug 16	0605E	0730	0942	078	1.0	H-alpha	A
KHAR	Aug 16	0720		0737	136	1.00	H-alpha	S
KHAR	Aug 16	0734		0744	189	0.64	H-alpha	S

MASS EJECTIONS FROM THE SUN

August 1981

Station	Day	Observed UT Start	Max	End	Location RA°	R/R_o	Wavelength	Type of Event
KHAR	Aug 16	0758		0813	136	1.00	H-alpha	S
KHAR	Aug 16	0834		0950	136	1.00	H-alpha	S
KHAR	Aug 16	0940		0958	321	1.00	H-alpha	S
KHAR	Aug 16	0940		1020	310	1.00	H-alpha	S
CULG	Aug 17	0259.5		0310			Meter	II
PALE	Aug 17	0259.6		0311.0			Meter	II
LEAR	Aug 17	0301.5		0312.0			Meter	II
KHAR	Aug 17	0924		0948	092	1.00	H-alpha	S
KHAR	Aug 17	1020		1047	092	1.00	H-alpha	S
WEND	Aug 18	0728	0738	0816D	096	1.0	H-alpha	A
KHAR	Aug 18	0756		0810	093	1.00	H-alpha	S
KHAR	Aug 18	0757		0807	250	1.00	H-alpha	S
KHAR	Aug 18	0838		0928	250	1.00	H-alpha	S
KHAR	Aug 18	0933		0949	250	1.00	H-alpha	S
WEIS	Aug 19	1251		1445			300-1000	IV Pulsations
WEIS	Aug 19	1255		1546			30-160	IV Moving
KHAR	Aug 20	0801		0812	174	0.51	H-alpha	S
KHAR	Aug 20	0813		0837	239	0.64	H-alpha	S
KHAR	Aug 20	0840		0911	068	1.00	H-alpha	S
KHAR	Aug 20	0908		0913	132	0.23	H-alpha	S
KHAR	Aug 20	0945		1002	068	1.00	H-alpha	S
KHAR	Aug 20	1028		1048	239	0.64	H-alpha	S
KHAR	Aug 20	1030	1039	1100	068	1.00	H-alpha	S
KHAR	Aug 20	1037		1100	279	0.93	H-alpha	S
KHAR	Aug 20	1049		1100	070	1.00	H-alpha	S
WEIS	Aug 21	0828		0831			300-1000	IV Pulsations
LEAR	Aug 21	0829.9		0901.2			Meter	IV
WEIS	Aug 21	0831.8					50-260	II
WEIS	Aug 21	0832		1043			30-300	IV Moving
KHAR	Aug 21	1010		1056	246-255	0.52-0.70	H-alpha	S
KHAR	Aug 21	1012		1056	080	0.75	H-alpha	S
KHAR	Aug 21	1020	1020	1030	163-166	0.49	H-alpha	S
LVOV	Aug 21	1357	1400	1410	065	1.00	H-alpha	S
KHAR	Aug 23	0815	0820	0843	248	0.97	H-alpha	S
KHAR	Aug 23	0852		0812	175	0.35	H-alpha	S
KHAR	Aug 23	0853		0912	061	0.81	H-alpha	S
KHAR	Aug 23	0858		0925	238	0.73	H-alpha	S
KHAR	Aug 23	0907		0918	212	0.50	H-alpha	S
KHAR	Aug 23	0913	0918	0935	070	0.72	H-alpha	S
KHAR	Aug 23	0920	0920	1001	293-311	0.52-0.44	H-alpha	SP
KHAR	Aug 23	0947	1022	1027	255	0.55	H-alpha	SP
KHAR	Aug 23	1012		1027	175	0.35	H-alpha	S
CULG	Aug 23	2200.5		2217			Meter	Possible II
SGMR	Aug 24	1824.6		1827.0			Meter	II
KHAR	Aug 25	0800	0800	0808	205	0.31	H-alpha	SP
KHAR	Aug 25	0817	0818	0829	114-120	0.46-0.52	H-alpha	S
KHAR	Aug 25	0902	0908	0928	252	1.00	H-alpha	S
KHAR	Aug 25	0935	0943	0958	261	1.00	H-alpha	S
WEND	Aug 25	1626E		1655	255	1.0	H-alpha	S
HARV	Aug 25	1945		1946			Meter	II
VORO	Aug 25	2326	2330	2336	290	0.281	H-alpha	S
ABST	Aug 26	0430E	0436U	0708D	100	1.00	H-alpha	SP
VORO	Aug 26	2320	2333	2345	103	1.0	H-alpha	S
ABST	Aug 27	0444E	0606U	0700D	113	1.00	H-alpha	SP
CULG	Aug 28	0347		0359			Decimeter; meter	IV
HARV	Aug 28	1421		1428			Meter	II

MASS EJECTIONS FROM THE SUN

August 1981

Station	Day	Observed UT Start	Max	End	Location RA°	R/R_0	Wavelength	Type of Event
WEIS	Aug 28	1421.0		1429.0			100-400	IV Decimeter
HARV	Aug 28	2021		2028			Decimeter	IV
HARV	Aug 29	2001		2017			Meter	II
PALE	Aug 30	1959.8		2013.4			Meter	IV
PALE	Aug 30	2013.5		2200.0			Meter	IV
VORO	Aug 30	2158	2215	2240	259	1.0	H-alpha	S
VORO	Aug 31	0104	0113	0130D	260	1.0	H-alpha	S
WEND	Aug 31	0943	0954	1021	260	1.0	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES
D = event ended after tabulated time
E = event began before the tabulated time
U = uncertain time

TYPE OF EVENT
A = eruptive active region prominence
CB = coronal cloud bubble
D = coronal depletions
E = coronal enhancement
EL = coronal expanding loop
II = Type II radio burst
IVm = moving Type IV radio burst
Q = eruptive quiescent prominence
R = coronal ray or streamer
S = flare-surge if there is a known flare association
SP = flare-spray if there is a known flare association
* = movement may be caused by ionospheric refraction

REPORTING STATIONS
ABST = Abastumani
BIGB = Big Bear
BLEN = Bleien
CULG = Culgoora
DWIN = Dwingeloo
GEOR = Georgiana
HALE = Haleakala
HAOC = High Altitude Observatory's SMM Coronagraph/Polarimeter
HAOK = High Altitude Observatory's MARK-III Coronameter at Mauna Loa
HARV = Harvard (Fort Davis)
KHAR = Kharkov
LEAR = Learmonth
LVOV = Lvov
MANI = Manila
MITK = Mitaka
NRLC = Naval Research Laboratory's White-Light Coronagraph Experiment on P78-1
PALE = Palehua
SGMR = Sagamore Hill
TELV = Tel Aviv
WEIS = Weissenau
WEND = Wendelstein
UDAI = Udaipur

NOTE: Because only a small fraction of the data taken by satellite-borne coronagraph had been analyzed at the time this table was assembled, many events are defined solely by ground-based observatory reports.

SGD 450 Part II (Comprehensive)

MISCELLANEOUS DATA

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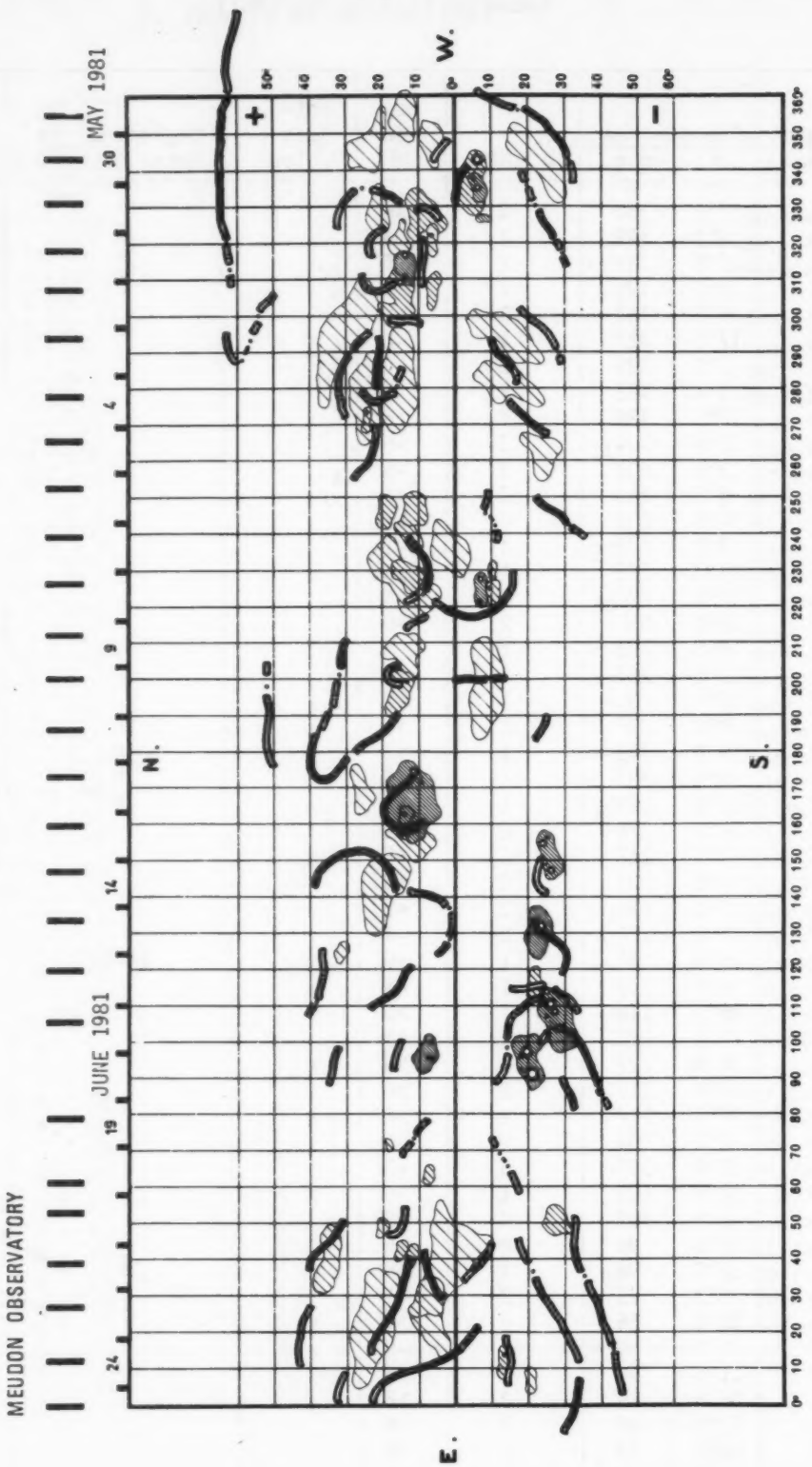
ACTIVE REGIONS
CARRINGTON ROTATION 1709
(May 29 to June 25, 1981)

Region No.	Coordinates Lat.	Coordinates Long.	IMP	Age at CMP	Spot-less Region	Region No. in Rotation 1708	Activity at West Limb
1	4°S	338	3	>6			decreasing
2	6°S	337	2	+3			decreasing
3	21°N	331	1	>6	x	5	dispersed
4	8°S	328	1	-6	x		?
5	9°N	328	1	>6	x		decreasing
6	6°N	322	2	0			decreasing
7	15°N	322	1	>6	x		decreasing
8	13°N	315	2	0			decreasing
9	6°N	308	1	>6	x		dispersed
10	15°N	306	2	>6		11	decreasing
11	15°N	284	1	>6	x		dispersed
12	14°N	279	1	>6	x		dispersed
13	14°N	272	2	-2			decreasing
14	11°N	248	1	>6	x	27	decreasing
15	19°N	247	1	>6	x		dispersed
16	13°N	241	1	>6	x	30	decreasing
17	10°S	231	1	+5	x		dispersed
18	13°N	230	1	>6	x	30	decreasing
19	15°N	229	1	>6	x	32	dispersed
20	7°S	225	2	+5			decreasing
21	10°S	225	2	+1			decreasing
22	14°N	208	1	>6	x		decreasing
23	16°N	198	2	>6			decreasing
24	13°N	167	3	>6		42	decreasing
25	15°N	161	2	-3			decreasing
26	13°N	155	1	>6	x		decreasing
27	25°S	152	3	>6			stable
28	22°N	142	1	>6	x	46	decreasing
29	22°S	131	3	>6		47	decreasing
30	32°N	125	1	>6	x		dispersed
31	21°S	116	1	>6	x		decreasing
32	27°S	107	4	>6		49	decreasing
33	9°N	97	3	+6			decreasing
34	19°S	96	5	>6			decreasing
35	19°N	72	1	+4	x		dispersed
36	9°N	63	1	>6	x		dispersed
37	26°S	50	1	+6	x		decreasing
38	21°N	49	1	>6	x		dispersed
39	16°N	43	1	-1	x		stable
40	13°N	41	1	+1	x		decreasing
41	36°N	40	1	>6	x		decreasing
42	9°N	29	1	>6	x	59	decreasing
43	12°S	12	2	+3			decreasing
44	20°S	7	1	0	x		decreasing

ACTIVE REGIONS
CARRINGTON ROTATION 1710
(June 25 to July 22, 1981)

Region No.	Coordinates Lat.	Coordinates Long.	IMP	Age at CMP	Spot-less Region	Region No. in Rotation 1709	Activity at West Limb
1	16°N	356	5	>6			decreasing
2	9°S	349	1	>6	x		decreasing
3	14°S	349	2	>6			decreasing
4	8°S	335	2	>6			dispersed
5	6°S	333	2	+2			dispersed
6	12°S	327	1	-2	x		dispersed
7	7°S	325	2	-5			?
8	13°N	322	2	-5			?
9	16°S	320	1	>6	x		dispersed
10	22°N	304	2	>6			decreasing
11	9°S	301	3	>6			decreasing
12	6°S	293	3	+1			decreasing
13	14°S	284	4	>6			decreasing
14	9°S	283	1	-1	x		increasing
15	24°S	276	1	>6	x		dispersed
16	17°S	272	3	>6			decreasing
17	19°N	263	2	>6			decreasing
18	5°S	262	2	-5			?
19	16°S	262	2	+2			decreasing
20	5°S	256	1	+2	x		decreasing
21	10°N	256	1	>6	x	14	dispersed
22	12°N	243	1	>6	x	16	dispersed
23	19°N	232	1	>6	x	19	dispersed
24	13°N	228	1	>6	x	18	dispersed
25	26°S	225	2	+1			?
26	3°S	214	1	+2	x		dispersed
27	7°S	194	2	+5			dispersed
28	7°S	174	2	+2			decreasing
29	21°N	174	2	-4			?
30	15°N	167	1	>6	x	24-26	decreasing
31	3°S	151	1	-4	x		?
32	26°S	148	1	>6	x		dispersed
33	10°S	127	2	+6			decreasing
34	25°N	127	1	>6	x		dispersed
35	21°N	117	2	>6			decreasing
36	24°S	117	1	>6	x		decreasing
37	9°S	109	4	-1			stable
38	22°N	108	3	+3			decreasing
39	10°N	105	1	>6	x		decreasing
40	8°S	100	4	>6			decreasing
41	28°S	98	4	>6			decreasing
42	22°S	96	1	>6	x	34	dispersed
43	6°N	73	2	+1			stable
44	16°N	66	1	>6	x		dispersed
45	4°N	59	1	0	x		dispersed
46	11°S	49	2	>6			dispersed
47	16°N	49	2	>6			decreasing
48	11°S	49	2	>6			dispersed
49	20°S	33	2	>6			dispersed
50	15°N	10	5	+2			decreasing
51	13°N	2	3	>6		RC1710(1)	decreasing


SYNOPTIC SOLAR MAP
CARRINGTON ROTATION 1709
MAY 29 – JUNE 25, 1981
MEUDON OBSERVATORY
MAY 1981
JUNE 1981
N.
S.
E.
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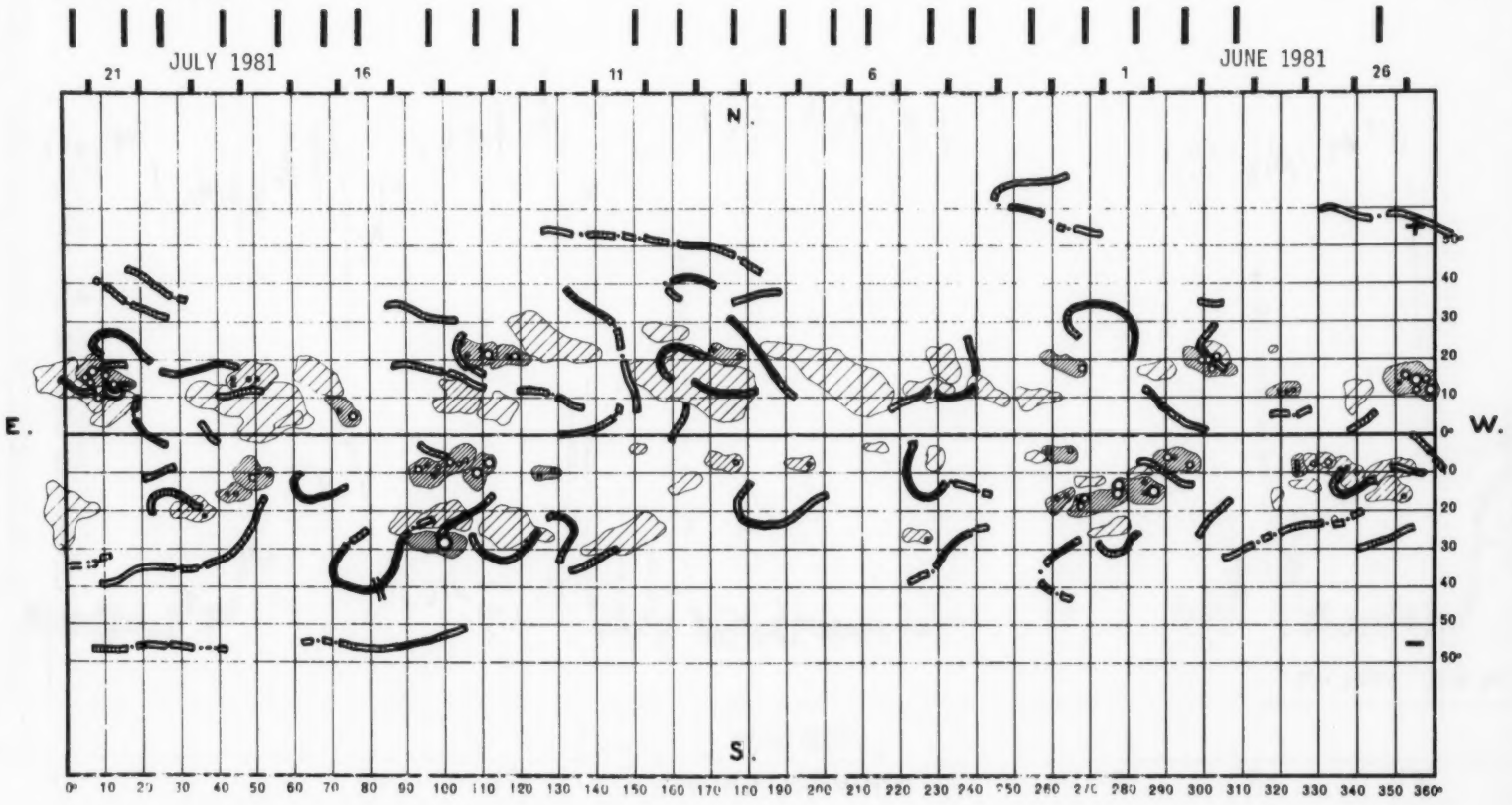
SYNOPTIC SOLAR MAP

CARRINGTON ROTATION 1710

JUNE 25 - JULY 22, 1981

MEUDON OBSERVATORY



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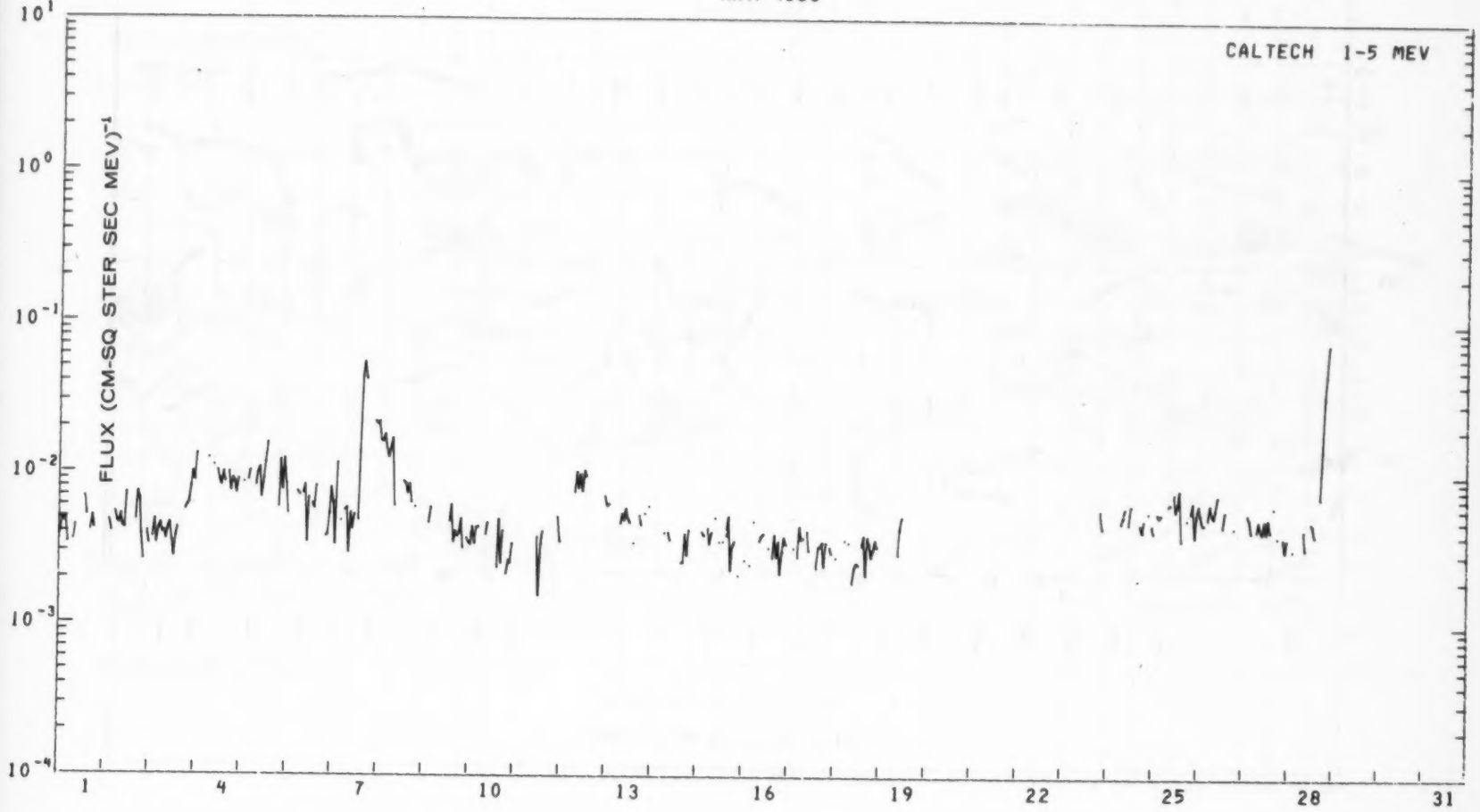
Misc
May-Jul 81

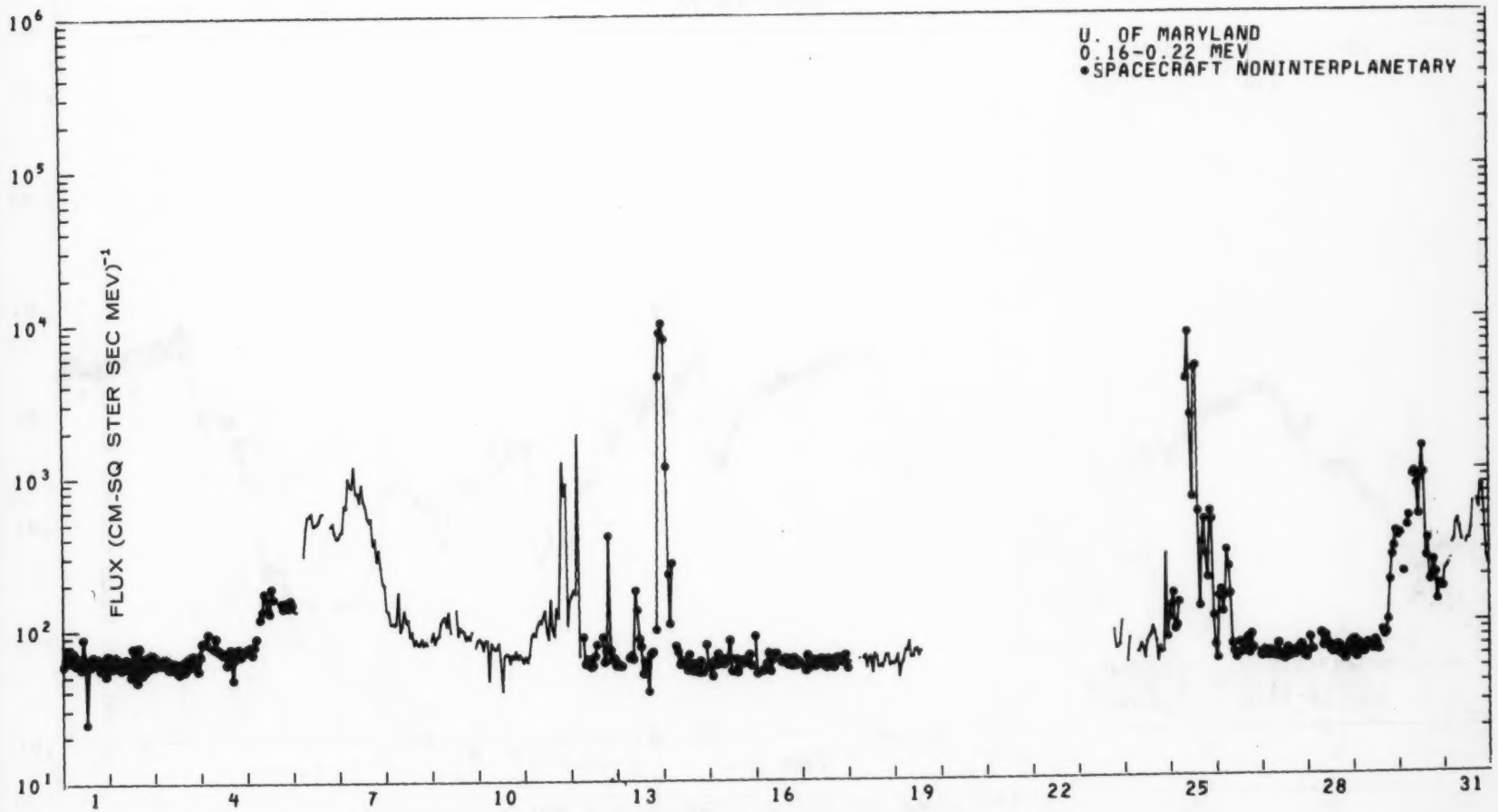
IMP 8 ELECTRONS

MAY 1980



IMP 8 LOW ENERGY PROTONS

MAY 1980



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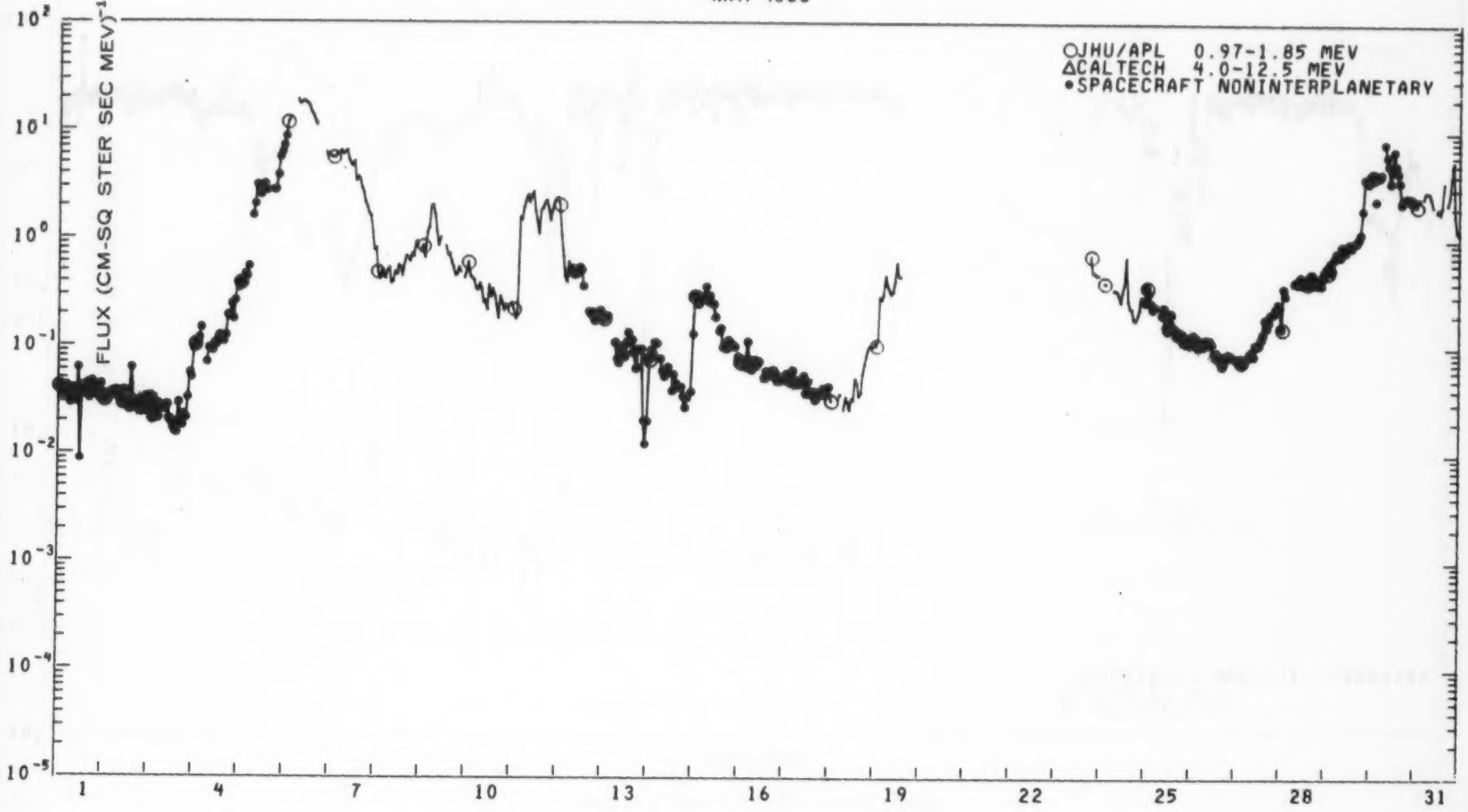
Misc
May 80

IMP 8 INTERMEDIATE ENERGY PROTONS

MAY 1980



IMP 8 HIGH ENERGY PROTONS

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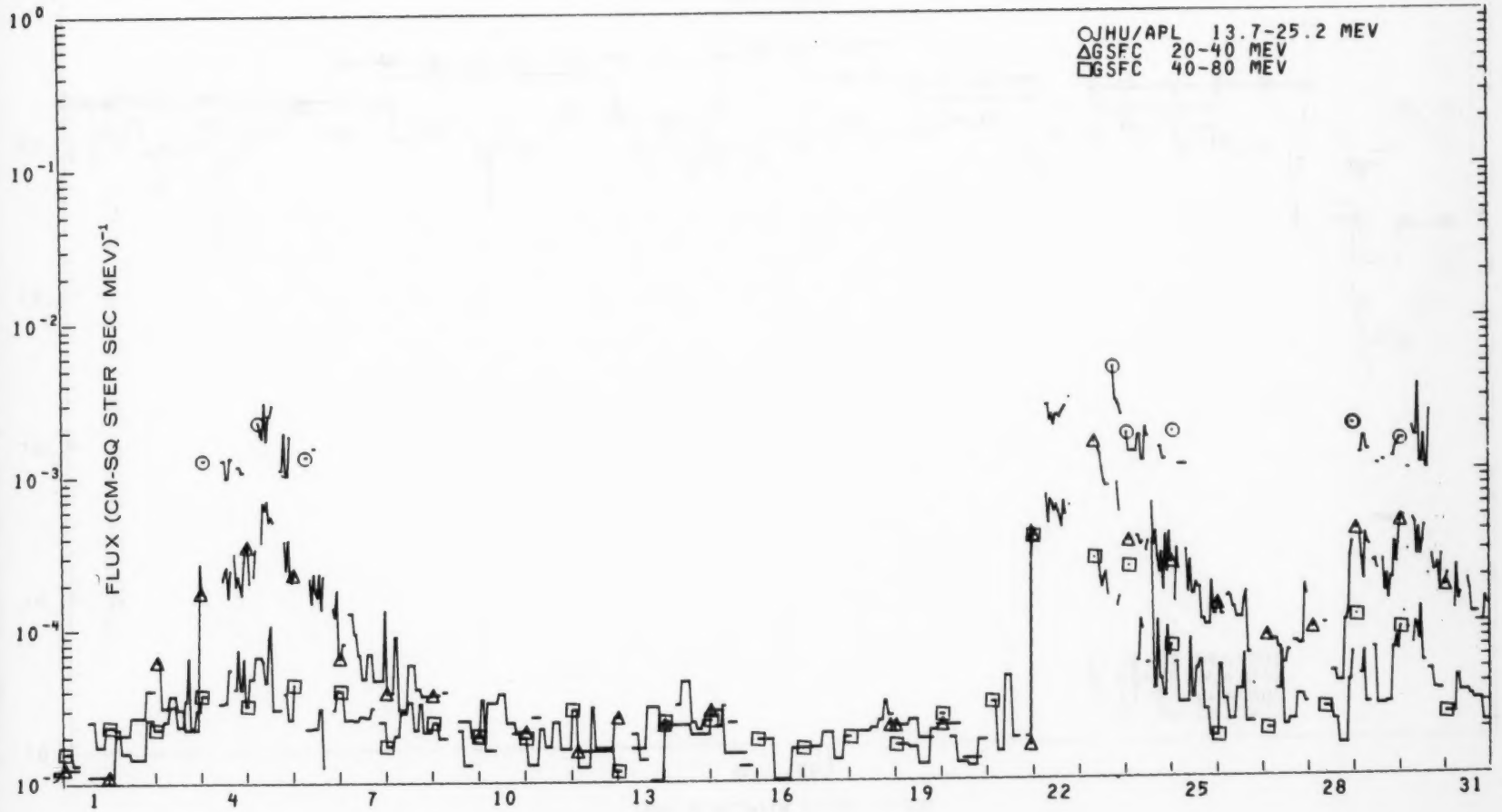
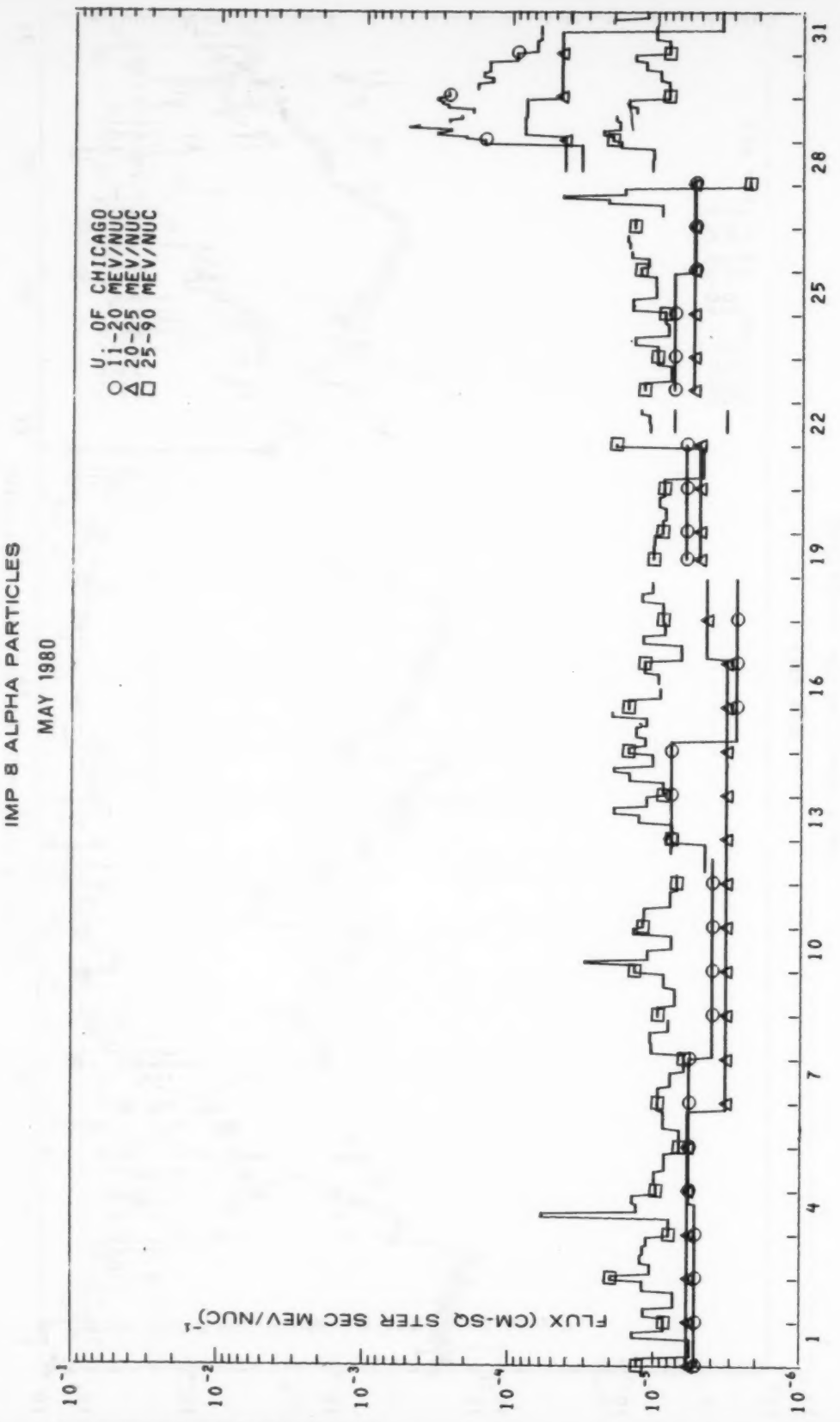


71
Misc
May 80



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